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<223> Genbank Accession No. L13698

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<213> Homo sapiens

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<223> Genbank Accession No. L19871

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<213> Homo sapiens

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<210> 410

<211> 1493

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M13955

<400> 410

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<211> 849

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M18737

<400> 411

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<210> 412

<211> 1483

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M19045

<400> 412

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<210> 413

<211> 980

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M19309

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<210> 414

<211> 3778

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M20543

<400> 414

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<211> 961

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 676

<212> DNA

<213> Homo sapiens

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<211> 1688

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M21665

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<210> 419

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M22406

<400> 419

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<210> 420

<211> 1568

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M24069

<400> 420

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tctttaagaa acaactacaa aaagaaaatg tcaacaaatt tttccagcaa gctgagaacc 1560
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<210> 421

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M26311

<400> 421

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caccctgaac cagggggaat tcaaagagct ggtgcgaaaa gatctgcaaa attttctcaa 180
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tcatggtggc cacggccaca ggccactaat caggaggcca ggccaccctg cctctacca 480
accagggccc cggggcctgt tatgtcaaac tgtcttggct gtggggctag gggctggggc 540
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```

<210> 422

<211> 213

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M28590

<400> 422

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```

213

<210> 423

<211> 1045

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M29645

<400> 423

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1045

<210> 424

<211> 1586

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M30894

<400> 424

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agagccccag agaggaaggc atgctgttgg ctctagctct gcttctagct ttctgcctc 180
ctgccagtca gaaatcttcc aacttggaag ggagaacaaa gtcagtcacc aggccaactg 240
ggtcatcagc tgtaatcact tgtgatcttc ctgtagaaaa tgccgtctac acccactggc 300
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agagccttaa atttatactg gaaaatctaa ttgaacgtga ctctgggggc tattactgtg 480
ccacctgga ggattattat aagaaactct ttggcagtgg aacaacactt gttgtcacag 540
ataaacaact tgatgcagat gtttcccca agcccactat ttttcttctc tcgattgctg 600

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aaacaaaact ccagaaggct ggaacatatc tttgtcttct tgagaaattt ttcccagata 660
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1586

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<210> 425

<211> 700

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M31994

<400> 425

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700

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<210> 426

<211> 1268

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M33197

<400> 426

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<210> 427

<211> 1081

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M33493

<400> 427

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gagagtccgc gaccgatact ggatgcactt ctgcgggggc tccctcatcc acccccagtg 180
ggtgctgacc gcagcgact gcgtgggacc ggacgtcaag gatctggccg ccctcagggt 240
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<210> 428

<211> 1056

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M33653

<400> 428

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```

```

atgggaaagg acctcgcggt aaactaggag acatgggccc tcttggtccc caaggccccc 180
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```

<429

<211> 1238

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M34338

<400> 429

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<210> 430

<211> 468

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M34516

<400> 430

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```

<210> 431

<211> 1060

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M34996

<400> 431

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<211> 1104

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M35252

<400> 432

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<210> 433

<211> 4567

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M37984

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<211> 1104

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M57466

<400> 434

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<210> 435

<211> 2153

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M60314

<400> 435

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<210> 436

<211> 1568

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M61764

<400> 436

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<210> 437

<211> 1811

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. M62831

<400> 437

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<210> 438

<211> 1244

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. M63438

<400> 438

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<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<223> Genbank Accession No. M98539

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<213> Homo sapiens

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<223> Genbank Accession No. M99487

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gcatttattg atccattagg gttaccagac aggccttttt ataggcatgt catctatgct 2340
ccaagcagcc acaacaagta tgcaggggag tcattcccag gaatttatga tgctctgttt 2400
gatattgaaa gcaaagtgga cccttccaag gcctggggag aagtgaagag acagatttat 2460
gttgagcct tcacagtgca ggcagctgca gagactttga gtgaagtagc ctaagaggat 2520
tctttagaga atccgtattg aatttgtgtg gtatgtcact cagaaagaat cgtaatgggt 2580
atattgataa attttaaat tggtatattt gaaataaagt tgaatattat atataaaaaa 2640
aaaaaaaaaa aaa 2653

```

<210> 452

<211> 301

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N22006

<400> 452

```

ttttgaattc ataatcattt attgtaaato actcacagtt tacacattac cagtggcaaa 60
ataacactgt taaacaccta ctggatgaag aacttcattg tgactatttc caattgccat 120
catatctttt tctaaaattt aaaatttaac ttttaaatcc tacatctttt ctgaaaatat 180
ctatcttcaa agtgtctcaa tactaacact ataagccctt tcttttgctc taacatctaa 240
cacaaagggc aactgtccc attaatcca catgcacttt acaaagcaac ttcacacaca 300
a 301

```

<210> 453
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N22620

<220>
 <221> unsure
 <222> (1) .. (450)
 <223> n = a or c or g or t

<400> 453
 tttcaagtca cagattacat atatttacat taattcaaat gtccaaagca cagtacagta 60
 gggctctat t aatagttcac ataatttaag atttacatat acacaagcac atgaaccaat 120
 attagtttgc tagaacaggg atttaagaag ttactcagac attttggtat tgacacttac 180
 atatttatgg caacaaatta tgatgacttt aaattttcaa tgagatcttt tgtacaagaa 240
 tacagaatgg gaagaatgta caaaatgaaa agacaggcaa acaaatgtac tttccttggc 300
 actatttcta taacaccata tagggttgtg ggcctcgggtg ccgaaattcc ctggcaagcc 360
 ccgggggggtt ccacacctaag ttctnaggag ccgggcccgc acccgngttg gaagctccca 420
 gcttttttgt tccccttttag gtgagggtta . 450

<210> 454
 <211> 368
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N23352

<220>
 <221> unsure
 <222> (1) .. (368)
 <223> n = a or c or g or t

<400> 454
 nttgcacttg gggtaatagg tttattatct ctatatata gtaagcattt attgatgttt 60
 gtcaaaaaa agagacaaga taacaaaaaac tatttttagca tgaaaacgag atagctgcaa 120
 tagactaata ctgagcttaa agactccaaa aagagcacag aacctgaaat gacagttttc 180
 aggttgtata gttatccaga caatgaagtc aactatacaa ggcaagcaac acatgacaat 240
 aaaacaccat caacagtttc ccactggagg atggagggag gcttgctggg gcctgggnaa 300
 ctangtggga aaaatattta aaatctcata aatcctccgt atcctttttt tccnatttca 360
 gggaactt 368

<210> 455
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N23730

<220>
 <221> unsure

<222> (1)..(375)

<223> n = a or c or g or t

<400> 455

```

tcgcattcaa cttaaatgnt taacatngac aatgtcttgg aacaataagc aaacaatgct 60
taaatttttc attcaaattc actttccaca tgtcaaaaaga cctcaaggta gaaaaaaata 120
aaataaaaaat ataaatatct gagaatccat cttaataaat aaattaaaaa cncnnnccaa 180
cgtttttcacn nccccntggt aatgtcagaa cattcagacc acctcaacaa tgcattgatca 240
gtaacattac aatgaacatt gatgttgaag aaaaactaca gtacatggat atagctatatt 300
atttctatct accagaaaat aaagtcgtat cttttcttag tataatattg gtcatttcta 360
atcagaacac actat

```

<210> 456

<211> 469

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N24761

<220>

<221> unsure

<222> (1)..(469)

<223> n = a or c or g or t

<400> 456

```

anaattcaaa cttttatttg gcaataagtt cagagtcaca taacacataa aatcaacatt 60
taaaataaat agcaaattca catctagaat aaataggctc gcctaatttg cattaattgt 120
gcctgatatc atacaggcac aatctgtcat tccacgagat aactggaaaa gtctccaaag 180
tcagagttca aacctgcagg actgaaaaca cacagaagca ctgtcgcagg ttgggttccc 240
cgaaagcaga tactgaggtg gagaatggcg tgcaggaagg ttcataggac agtgctgtgg 300
gctgagccgg ctgggtacag gcttgtcagg gagaggcact gggctgtaat gtggccacaa 360
tgaggtctca ctggaccca caaggggctc tggagctggg atggccccag aggttttccc 420
aagttggggg gaggaggcca gacctttgta ccccatatgg agccggtaa 469

```

<210> 457

<211> 454

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N24899

<400> 457

```

gttggttgaa aaacatttat tgcaattcag tgtcaaaaagt tttttacaaa aatatgccac 60
cgtctgggtac aaacaactat aaaaaatcag ttcattcatgc aagaaaagtg tgcaaataat 120
ttatacagaa ggactcagct cacacaatat taaataaaca tctctgcatg taattggtct 180
aacttttatgc ttttagttaca atgttcaacc ccttctaata cttttcattt aaaaaagtac 240
attaaagctt ctaagcttag gacacaggct gtaatatatcg cccacttttag ccatgggtgat 300
tggcacttgg tagaataaag attggcacca aggattccca agtatagaat acagcttggg 360
gccttctgct taacagactt gtgcttcgtt aattaaacaa acacatctat actcaaagac 420
agaaaaagtc atgtttaaac tccagaaata atgt

```

<210> 458

<211> 441

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N24902

<220>

<221> unsure

<222> (1)..(441)

<223> n = a or c or g or t

<400> 458

```

ggtcnacagc cgttttttcta gttccaagtt ttaaatacat ggaaggaagt ccggggagAAC 60
catatgaagg agcaggagga gaggaagaaa ctttttttcc ttctttttcca ggagtagctg 120
gaaattaaga tcgggttcct tttctgccag cttggaaggg caaccccatg actgattgCG 180
attctgagga tgtctatgca aagttggatt cttgttacag tgtatccaat ctgaagtatt 240
gcacatctga actgggactg ttaacactga tgccaataca gtgtgggggtg ccagaaagtG 300
tctgctgata tttgtggaaa aaaaatctat tttgtttacc tactgtatca aaggggagtc 360
tgggggagaa tggtagtatt tttttttttt atcagctgtg aaaaaaatgt tacagatctg 420
cacattttcg tgtgtactat g                                     441

```

<210> 459

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N26713

<220>

<221> unsure

<222> (1)..(466)

<223> n = a or c or g or t

<400> 459

```

tgattattcc agaataTTTT attttcccaa agaaggTTAA ggatagaatt ttgtagagtt 60
tttgTTTTTT taatgcatcc aacacatagg agaattttat tttaaagccc tttttaaaaa 120
tgaaaattct agttggtcct caattctctt cagagcaaac atcattttatt ctactctata 180
aaaagaaacc taaacaaatt aagatgacaa gtaagaaaaa cttattctct ttatctcctt 240
taaaaccaaa attttagttc tgctgggctg gttttcttca aattctcatt attttaccaa 300
tgaggcactt tataatacaa atgcttaaag tgttgagggA ttctgactcc caaaaacatc 360
atttgगतat aacaagattt gtactactga cgttgगतat acacaattaa atcnttcctc 420
ctagtggatg atggaaaatn aatgggttga ngtaanaccg gatcca                                     466

```

<210> 460

<211> 221

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N26801

<220>

<221> unsure

<222> (1)..(221)

<223> n = a or c or g or t

<400> 460
 tttttttttt ttgatgcaaa tgttttttatt tgccacttaa actacagttt ccctgtgcta 60
 tccngatggg gtgggggtgt ggaacaggct gctggaacca tggtttacag tagtagcagg 120
 tagatgatta gtagcatgag tggtgaaatg ctgcatctaa gtgcctgtca ctttgctccc 180
 aggggaatat catgcagccc aggaatagtg ttagactggg a 221

<210> 461
 <211> 445
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N26904

<220>
 <221> unsure
 <222> (1) .. (445)
 <223> n = a or c or g or t

<400> 461
 aagtttttta aaatttatta tttattattt ctttttgctc ttgtttcggt tctcttcctt 60
 gagcttcttt ttggagactt tgggtctatt ggcttttctg tataggtgat acccaatgag 120
 gcccaggagg ntcggcacca tggccatccc taccagaggc aaaatgccct tcaccagctt 180
 tanccagtag ttggctcgga ttagtgcaat cagctccacg tcatactgca ccatgcatc 240
 cgctgggaca gatggtggaa atccccgttt tccataggcc aagtgagaag gaatgattgc 300
 ccttcgcttc tctccacac acatgtcgag aagactctgc tccagacctg gaatcacctg 360
 cttttggcca agttctataa ccagaggggtc tctgggtccag ggaggtgtca ataatacgtc 420
 catctaccaa gcttcccgtg tagtg 445

<210> 462
 <211> 438
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N29568

<400> 462
 ctttatcggt atttgtttgt ttctgttcct tatcttttcc attctctgtc ttctgctctt 60
 ctagatacct ctttgtatag gctgctcctc ctgaagcagc actctcctcc ttctgagatg 120
 agccatatgt ggagccagtg gatggtggac tcttaccac agggctcttt ttggatggac 180
 tcagggaccc agaaccatgg tcgaactgac cttggtgtgt cccagactga taccgggcac 240
 cactcggcag agttgagccc atctgggatg tgctggaaag tggaggacta ggttttggca 300
 cggggctagg acggggtgac cgccgcctca ccaccacaga ctgggagggg gcttttgaga 360
 gctgggcttc gctcccagg actcagctca gaaactgctg agggccgtga tgcagaacca 420
 gtgccgtagg tggcatca 438

<210> 463
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N30198

<400> 463

```

tatttttcat gaaatgattt attactttta gaaaacagta taaacttaca aactataaat 60
taagatataa gtatatattt gccaaagtaa gtcaagaaaa atgcacttca gaatcagctt 120
ttattacagg caatgtattg taaactcgaa catccagaat ctgagttaca cttattattt 180
ttaacatttt actcaataaa aatctgatat actgggtcca agtgatgaca cattccaaat 240
taatgtaact ttcttgagc tttaataaac aaatttagat caccaagtga aatcaaagcc 300
aagtgtattt gcacaactca agaattgatgt gaattggatta gaatctctca tagtgcatac 360
ttcgccattt atacacaaac tttagagagtc ttctgagtgat catgggtattt aactttgttt 420
ccaagggccca aataactaaaa tgtatagaat atcctactct atactcacta tttaatgtca 480
tggactaggg aaatctg 497

```

<210> 464

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N30856

<220>

<221> unsure

<222> (1)..(585)

<223> n = a or c or g or t

<400> 464

```

gattaaaaag agaaaatata ctgtaaaata tttattttaat aaaaataatt ttataatcta 60
tacagaattg aataaaaagt acaacaaatt attttctactt atttacaaaa ctgcatacag 120
tacaacttgc acattgagtt cagcattcta taaatatggc cacataccaa gatgtgaaca 180
tattcttgtc ttatataaga aaaggctcag gttgtatgcc acaaactttg aattaaattc 240
cagggaaata ttgctttggg aacatgaaca atttgtacca cattccatta aaaaagatt 300
taataaaatc cctcaaacag cacttttcta cttgtttcgg agtacacaat tcccaaatta 360
gcacaaacaa aacaaagcaa aaaaagaaaa acagacagaa tgtaaaatgn aggttgctac 420
ttttatgata tcacttccct ttcccttccct tagctagtgg tcctttccct tcccctaata 480
gtaagggttg gngaattgaa atggcctatt cctatcccca tccatttgcc tccaggatcc 540
ctgcttaacc naatgnggta tggtcgnctt ggccacctgn cacc 585

```

<210> 465

<211> 579

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N32748

<220>

<221> unsure

<222> (1)..(579)

<223> n = a or c or g or t

<400> 465

```

cagcagaaga gtgacctgat tttattcacc ttttattgga aatctgtggg acagaactag 60
gcaatgaggg tgctacaata ataaagggtga gtgttggcag tggcttgacc agagcagaag 120
tggaatgaa acagttggat tctgtttgtt ttcaaagaag agtcataga acttactgat 180
ggnttggtat gtaggatgtg aaagaaaacc acagaaatga ctccaactaa aacagtaaaa 240
tgccattcac taatttcaag atgatgagag aagctgtttt gcagagataa tgaaagaaat 300
tctgtttgaa gcctattaaa gtttgaagtg catattaatt ggactttcaa gttgagatgt 360
caagtaagta gcagggtctc tgagtatgga atacnaggct gtgggcnagt gacttanagt 420

```

```

ctgcaacatc cacatatagg cagcatcncc atagcaacaa acatccngtt ccaaataatc 480
cgccngatctt tcttcctcca cgtccatctt cctcagagtc catcaggggc cncagnact 540
ggcnaatcca cncatgngcc cgttacctcc ttctengca 579

```

```

<210> 466
<211> 355
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. N33927

```

```

<220>
<221> unsure
<222> (1)..(355)
<223> n = a or c or g or t

```

```

<400> 466
acaattctcc gcagatttta ttaattataa cttttttttt cagacgtcct gccatcttct 60
cattcagact tttcttagca aaggtagtcc atggcaagta atgaattccc agtaactagg 120
tctgtaacag aagtaaattc tgtttttatg ttataaaact caaaaagtaa catgaagtgc 180
aaacaccttt agttccttcc cctcggtaac cttcttttga tgaaccagtg tgcagcaaac 240
caggatgaag ttggatttgg gtgggatcca cacagggtcat tttcaggcaa gatgagactt 300
cccaagttcc atgnatagat tcatattatc agttatttta tgcattcatt tctcc 355

```

```

<210> 467
<211> 455
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. N34817

```

```

<220>
<221> unsure
<222> (1)..(455)
<223> n = a or c or g or t

```

```

<400> 467
aacagggatt tatagcagct ttattcaaaa taactaaaat ttggaagcaa ccaagatgcc 60
cttcagtaag tgaatggata aactatggta cacacaatag aacataattc agcactaaaa 120
agaaatgggc tatcttgtcc tcaaaagatg aggaaactta aaagcatatt actaagtaaa 180
agaaggcagt ctgaaaaggc tacttactat ataactgcaa ctatgtaaca tgcgaaatga 240
tggagatggg ttgcagggtt aaggggatga tatgtaataa acaggaagag cagggatgac 300
ttttagaaca aagtgttctg tgaggtacta taaggctggg atacatgtca ttatacattt 360
actccaaacc cataagcatg taaaaccncc aagagttaac ccctaattgg aaacctatgg 420
gcccttggga ccacctatgg atggcnccaa tggta 455

```

```

<210> 468
<211> 412
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. N36001

```

<220>

<221> unsure

<222> (1)..(412)

<223> n = a or c or g or t

<400> 468

```

attagtgaat tagtttattt aaaaccatca gtttttccaa tgtgaatgga ctgggttcata 60
tcacaccata tttagagata caagggtgatt ataactaacg tgtctacaag acatactggg 120
tcaaacaatg tgatcaatcc aaagggtatc ttttttaaaaa gaatttaagt actcagctgc 180
aaagataagt tcaactaatga gattttcttt tttttttttt taaaaaaaaa aggttttttaa 240
tgagtcaaat ttattacaaa aacttagtgt gtaatcaaag ccaaatacat tcctcaggca 300
tgccagcgga acgcaaaaata atgttaatag aatgttatta aaaaataaaa ctttttctga 360
atgatataata taanacctca tggcacatta tcctcatttg gacaacngga aa 412

```

<210> 469

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N39415

<400> 469

```

cagagaataa catttatttt atttggaag ttttctctaaa tatgagacta tctgctattt 60
ctcagactaa gtgaaaaatt taataaaaata gctgccttga taggaggaaa acaaagtctt 120
tactttataa ggaataacgt atgaatcata aaagaagaat gagcgatcat gggaaacatt 180
tagcttttca aagtttttgg aacatgtacc tttaatgctt ttgggatcca gtaaaggcca 240
ggaaaggcaa agagttgaaa gtttcttgga tttatcctcg tacttacatc attagtaata 300
ggaataatgc atctcaaatt tggggcattt atataaaaac atgattttta aatggtagtc 360
tagtataaac taggattttg taatgctgtt taaatatttt catattactt tgtttcgaac 420
gtagacattc 430

```

<210> 470

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N40141

<400> 470

```

gctgactcaa gttcttcagt tcacgatctt ctagttgcag cgatgagtgc acgagtgaga 60
tcaagatcca gaggaagagg agatgggtcag gaggctcccg atgtggttgc attcgtggct 120
cccgggtgaat ctcagcaaga ggaaccacca actgacaatc aggatattga acctggacaa 180
gagagagaag gaacacctcc gatcgaagaa cgtaaagtag aaggtgattg ccaggaaatg 240
gatctggaaa agactcggag tgagcgtgga gatggctctg atgtaaaaga gaagactcca 300
cctaataccta agcatgctaa gactaaagaa gcaggagatg ggcagccata agttaaaaag 360
aagacaagct gaagctacac acatggctga tgtcacattg aaaatgtgac ttgaaaattt 420
tgaaaattct ctccaataaa gtt 443

```

<210> 471

<211> 513

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N47686

<220>

<221> unsure

<222> (1)..(513)

<223> n = a or c or g or t

<400> 471

```

gggttttatgg ggtttaattt ttaatactgt taacatcatc gagccagcta aacaccaaga 60
atatcaataa atactaatag tttgttttca cttcctcctt ctgttggagc actttgactt 120
tatatacatt ccagtcttag tgccaaggcc ccattgggtt tcaaattcca taccagagca 180
catcacctgg atgtgactct catatgctca aggatattcc tggagttaga aggaaatata 240
aatgagcat aagaacagat tacagacgcg tcagtatgaa agttgatact cgtgaaaaac 300
agcagtttgc tgagaccctg gaagtttagct ggagcagtca ggcagaaatg actcgtgacc 360
atggctgcaa atggggcctt ttctcacaaa gggctttcca ccattctttt cttgggcttg 420
caggtagaag atgcggtttt cttcaggata agtaacttta ctgaggggca tcttgtagat 480
gttggaattt tttgtggtca tgatgaggaa cnt 513

```

<210> 472

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N48056

<400> 472

```

atataatatt caactttatt tcaaatatac caatttttaa atttatcaat ataccatta 60
cgattctttc tgagtgcacat accacacaaa ttcaatacgg attctctaaa gaatcctctt 120
aggctacttc actcaaagtc tctgcagctg cctgcactgt gaaggctgca acataaatct 180
gtctcttcac ttctccccag gccttggaag ggtccacttt gctttcaata tcaaacagag 240
catcataaat tcctgggaat gactcccctg catacttggt gtggctgctt ggagcataga 300
tgacatgcct ataaaaaggc ctgtctggta accctaattg atcaataaat gctctttcca 360
gaaacatgag ttgatcattc atcattctta atactattgg gttgcttttg gtcaaagtcc 420
tggagtctct cactgaactt gg 442

```

<210> 473

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N49899

<400> 473

```

ttccaacaac atttggttta taaaggaata caaacaggca caaaacatgg ttcagaagat 60
ttattaagta aacttgctaa aatatggaca gatacactta gcagtcaaac agttgaatat 120
taattgctac ctcatataag tttttgtatc tgtattacca ggtccaaaca taaaaaccac 180
ctctgttcaa aaaataaatg ttcagagagc tgtatgttct ttgttcttgt atgtacattt 240
taaaaaaaca cctctttcca gtcttgctaa ccaagaatat tagtcatata aaagaactta 300
gaattttttt cccaagtac aagctatctt ttggctccaa aacagttctg aaggttttat 360
ttatatttta tcttatcccg agggaccaac agcagggcat acctttggcc aggccttctt 420
ggcagaaaga cacagagccg taaagggaaa aaataaaatt gccataaagg tatag 475

```

<210> 474

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N51529

<220>

<221> unsure

<222> (1)..(474)

<223> n = a or c or g or t

<400> 474

```

gcaaaaaata aatataaaat ttattaaaac acccacaata ttttaaagat accaggagta 60
atacagttca caaacccagt tgtttgtgta aattataata aaatacaaat caaaaaggat 120
acatacttgc aattttctagg caccctaaat taaatttact gaaacactga gggagaaggg 180
agggtaagga ggggtagctc aggaggcaaa ccaataaagt ggaaggaaaa aatattaaca 240
aaaaggtaaa aattatacaa aataaaatta tcagcgtaaa tttactgtac taagaatatc 300
tacagtttaa tacacatcct attgcccttg agacatttgc aaaaatctac cattcatcca 360
tcaaccccag attaaacttc attttcaagt agccccagtt ttaccaagtc nagacnggaa 420
tatttccagt atgggttggt aagttcacct ccantgggag gcccgattac ccaa      474

```

<210> 475

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N52254

<220>

<221> unsure

<222> (1)..(507)

<223> n = a or c or g or t

<400> 475

```

tttctattaa tctttattta tatgatgggt ctctggaaag cacttcattt taaaacctgt 60
ttctgagata agtagcataa ggcgcatttg aagaaatact attggtgtat cacagagaac 120
ttccatgcct tgaaatcatt ttttccagag tattattaat aagatgggtc agctatgcag 180
agcaaaaaag aaaaaaaatc ttcaaaagcc aagactgtca ggcacatgaa ggtatgcata 240
aactgtcttc acattttaatt ttgtatgatt cgggagatac ctccatgtac atctaaccag 300
gtcaggcagc ataagtcctc agtaaccctg ggggtgtgccg gcttcaagcc aaagtattct 360
gttgagtttg gtttgtggag agacatttga aatgttgctt catagcttcc attttctgga 420
gaagtggaag aaatgaagcg tnaaaaggcc taggaaatcc tcgtcttctc caggctcttc 480
ttctccttct gcagnttcct ctcctc      507

```

<210> 476

<211> 166

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N53359

<400> 476

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catctaaaag tggtttttta atatatatat tttttccaaa ggaagaaatt tcttgctttt 60
actcagggaa aaaaaaaaaa ttaaggtaca tttgagtaga atgatttcat ctaaaagagt 120

```

tcttttcagga gacatctgtg attcactgca ttgtttttat tttctt

166

<210> 477

<211> 380

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N53447

<400> 477

gtatagagta aaattttatta tagggttgta gaattcatatc aacctaaact ccttacagca 60
 ttcagcacct acacaatttt gtgcattcca aatacagata gtagtgagaa agaatacactg 120
 cattagtttaa aaatgactgt ctcatgaaaa ttctgttcaca tataagtcag gttaattaca 180
 gagcacctaa cagaactgca aagatgtaat ttctaaattc aagaaagttg tacaaaaatga 240
 aaaacaaaag aaaccaacaa tgttgagatc tgatatattt tacacaaaaa gttcaaaaac 300
 aattttaaatt atttcaaatt ttaaaattgc tccaccataa gatgaataaa gagcttactt 360
 aaaggaaaag aaaaaaggaa 380

<210> 478

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N55502

<400> 478

ctgtgaataa aactttttaat aatgtacagc agaaattgga caggctcatt cttatatataa 60
 aacaaaagat ttcctatatt acaattttatt tacattttgca tactgaagag gtaaagtgtc 120
 taagtggcta ttttacagtc ctttctaata aaatgtacaa aaacaaacag aagtaccgag 180
 aatgccgttc gggggccttt atggcgacgt aagaacgggc ttggacttgg tctgtgaatc 240
 cagaatccag aggtgcaggt agcactactg gatcaggggt agcctcgggg ggccaaaaac 300
 acggcttcag tttctcccca actctcactt agtgtaaga gtggcagagg tgggtgtggg 360
 agcttcccaa agacctgctc catcttcccc agaggtggaa 400

<210> 479

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N57577

<400> 479

ttccctcagg tgggttaaagg ccaccaaaca aatactgggc aacaggggtt tgttgggaga 60
 gttagaaata aaaaattaac caaattttgt ccctgtgtta attcaatgcc agcaaggagg 120
 caagtactga agaagaaaag ggacaatttt catactaaaa aagaattcct ctaatcatgt 180
 caccatctca tataatgaat ccagggaatc ccagaaatag aaaattagtt tcaggggacc 240
 cctgaggcac tttaaagcct tttaaaaaat tacagtaata ataaattaga tattgctctt 300
 cagaggctaa cagagcagca gaagcatcaa gatcagggtc aaagagttat gccacattt 360
 acaggcttcc tggagctgct cagccctctt ttaaagctta gttgaatcct ttaaaatacc 420
 ctttaaaaag 430

<210> 480

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N58172

<400> 480

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cctgaccgta ctcctcaaaa tccagattgt ttgtgcatac atttaaaaaa aaaatcaatg 60
gaaatttcca cctttgttcg aacacataaa gtatgccatg agcaatataa catcacaaac 120
gtactgtgac aaaccattaa taaagaagga ttactaagcc aggtgtgggtg gtgcatgcct 180
gtagcccagc tatgcaggag gctgaggcag gaggatcact tgagcccggg agtttgagtc 240
caccctgggt aacacaccaa ggactccatc tctaaaaaat taaaattaaa aggattactg 300
aaagatctca tttctaaaaa aagaaaaaag aaaaagatca ctggaagtcc agacatgata 360
tttttaatt                                     369

```

<210> 481

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N59532

<400> 481

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ggcaagtaag aaggaagttt aatTTTTTTTT tcaggattca gtggagtcca ttaatgcata 60
ccaggggcaa agatcagccc agggtaaggc aagtctggga ggaagcccac cctgccctac 120
agcagccctg gaactcagaa taggtggtga gtctgccatg gtttgctact gggcagcaca 180
ctagaccaac ttgggaatgt ggaagagtga gtctatgttc cctcagccat cccaagttt 240
acacacaggc atagcagccc tactgtgagt cagcaatcat tcctgacttg cagtaaggac 300
aatttgcatc tacggaaagc aaactggagg gggtagccta agtccgcact gcccatgtta 360
ttaccctttg caatgtgaaa aaccatgggtg aggtagggtg ggcaggtttt atcctctcca 420
caaagggtgag cctttgctcc acagc                                     445

```

<210> 482

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N59831

<220>

<221> unsure

<222> (1)..(473)

<223> n = a or c or g or t

<400> 482

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acctataaat atattttatt catacttttta aatatttttac aattcaaata aaaaccttat 60
atgtagacaa tctgggctaa atttccatgt atgttttgaa aaataatgtt agcatgaata 120
gattcatatt taaatatgat tttaaatact cttaatagag gagacataag aaatatattac 180
ataaaagcta agtagcatga tacagctcat gggtatttttc ctcataggaa aacaattact 240
tgattttttt tttttgcata ggattaagac tgagtatctt ttctacattc ttttaacttt 300
ctaaggggca cttctcaaaa cacagaccag gtagcaaatc tccactggcn ctaaggntct 360
caccaccact tttctcacac cnaagcaata ggtaggnatc caggncccac cttctgaggg 420
nccggaagga atgggttccg gaaaataatg gnttttaaaa nattaccatt aag 473

```

<210> 483
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N59866

<400> 483
 gttttttttt tttttttaat acaaaattta ttttatttct atgtactaac aatgaacaat 60
 gggagggtatt tacaattaca gtcaaaacca taaaacactt agaattttac aaacttcaag 120
 acctacacac tgaaaactat aaaacatttc cgagaagtca aagactaaat aaatggaaga 180
 tgatactatg ttcatcaatt agagtactta atatgttatt aattctcact aaattgattt 240
 atagattcca tacaatcctg ctcaaaatcc cagcaggctt tattctgggg aaatatggac 300
 aacctaatc caaatgttat agggaaatgc aaaggaccta gaacagccaa aacaacttga 360
 taaaaggaca aaattgaaat ccttaaattt gactcccata tttccaacaa atctacagta 420
 attaagacaa tggatatagg g 441

<210> 484
 <211> 419
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N63047

<220>
 <221> unsure
 <222> (1)..(419)
 <223> n = a or c or g or t

<400> 484
 nttatttttaa ataaatattt taattctatt gttgacattt acaagtagaa agcatacagt 60
 atgttacaaa tatcaaatg agaaaaatat gaatgttaca taagtaacaa atataaaaaa 120
 agtatttttct taccttccct gaaagtaaga aaactattca gcataggaaa atatcagtat 180
 caaaaacaca gcttaggtgt aaaaaaagtt tttacacagt atttaaaaaa aatgatctac 240
 aaaatgacaa agtaagtgtt gaaatctgat ttcataataa ttataaaaaac tgggtactta 300
 gagtaaatgt tatctgggtg gaaaataagt ccaatcataa gctttcctta ggtcaattct 360
 ttaaaatatt aaaagcatat cgaaaaattt tccaataaat aaccttnaag aggggttcc 419

<210> 485
 <211> 189
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N63536

<220>
 <221> unsure
 <222> (1)..(189)
 <223> n = a or c or g or t

<400> 485
 nagcaagcaa aaaactacct ttatatatga tgttattcaa atacatggat aagataacac 60
 attttatgat gtaaaaagta atatttataa attaaaaggc aagtctttct ggtattcaga 120

agtctgaagc aaccactgtc cagctcttta aaaagagcac attccattct ggtggcacac 180
aaatgtaca 189

<210> 486
<211> 523
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. N64683

<220>
<221> unsure
<222> (1)..(523)
<223> n = a or c or g or t

<400> 486
acaacttttt taatatatat ttttataaac aggtcacgtg ataaaatagc acaagaaaca 60
cttaccaaataa ataagggttat atcttccgca tatacaggag aatgaggtcg ttatgtacaa 120
taagaaaatg atttttagggg ttgggttggtt ttgttttcct ctctcccctt aatttttcct 180
cctacagtcg ttggaaatat cacagcttca gttgcattaa tactttgggc aaatggacag 240
ctgcccctcc ccactagggg tctgtgggga ggaggggctg gagaaactgg ctcttgacca 300
ctcagccctg gagcttctcg gggctggcac tccagggaca ggaaaatctt tgggctgttg 360
atctgtttct gattcaacag catctctctc tctctttncc ctctctctcn cagtctcatt 420
ctctctctca ctctctggct ctctgggaaa cgggtactct cttccaacca gatagggagt 480
gtcccaagat tgggtgtggg gcgcgggtatc tcctggggnc ttt 523

<210> 487
<211> 401
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. N66802

<220>
<221> unsure
<222> (1)..(401)
<223> n = a or c or g or t

<400> 487
tttttttttca ggccaaacta aagcttttatg ctataaaaaac aagaaataaa ataaggagat 60
ttataggccg gctgattgtc agcaaacaca atatatattac tgtattagca tttgctcaca 120
gtgcaaattg tacaacatta caccatttca atatttcggt ttttaaaaaat gctgttttca 180
ttaactatat tatattggca ttacaatatg acaaaggagc aaatgaaatg ttgggtgaaga 240
atttcacctt ttcacaatat caagcatatt tttttaacct tagtataagg tactataaat 300
ccaagaaata aaaacatcca caaaatatat tacatctnng tttgtctttt ttctaagtac 360
tcaactttat acaaaagtct ttcaaaaaat atcatttccc c 401

<210> 488
<211> 451
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. N67041

<400> 488
 aacatttcat ggaaaacttt ttattgggtt tctggataga aacaggaatt tatttgccag 60
 gaagaatgat cccatcatac ttcagctaga accagtgatg aggatgattc agtcttaaaa 120
 aagaaggaaa tccagtcata agctacagca tgtatgaatg ttaagtgaat tacgccagtc 180
 acaaaagaca aatactgtgt aggtatccaa agtaatcaaa ctcatagaaa cagaaagtag 240
 aatacttgct gccaggggtt gcaaggacca ggaaatggag agctgttatt caatgggtat 300
 agtttcagtc aagtaaaata aaagaagttg tacaacaatg tatatatggt taacaatact 360
 gtattgtaca gttaaaaatt aagataaact tggatactta tttttaatgg acaattttta 420
 aaaatagggtg tgggtaacaa tttccaatgg g 451

<210> 489
 <211> 231
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N67575

<400> 489
 tctattttaga tcggatttta ttttgcaata tttattatat attcaattca aatgtactca 60
 ctattgtgct aggcaattga aagtaaaaag tataaagctg ctttttgctg tctcagtgag 120
 gtttaagtca gggaaatgag gcatgcacac aaaataacga gaaagtagta taatagctgt 180
 gatcattagt tatcaaaata agtgaatgag ctaataatca ttgttagaat a 231

<210> 490
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N67815

<220>
 <221> unsure
 <222> (1)..(334)
 <223> n = a or c or g or t

<400> 490
 tttttttttt tggtaaagac ttttaagaga aagaagtatt ttaaaaagta gcagtgtctt 60
 gaggctcagg gtgtaggacg gggggcacag ctggtcccgg gagggccctt gtgcacaggt 120
 ggtggcccag ggcnaagtgc tcgtctttgg gggacgcgcg gccgggggac ngccatcgtn 180
 tccggcccgg ggctcccggc gggctccggc ggcagggaca atggcgaggc cgetcaccac 240
 tttaggaana ccatcccggc caggacggtn tagcccagca ccaggaagag gaccttnagc 300
 anacggtcac tcttctctc canctccttg gcc 334

<210> 491
 <211> 478
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N67876

<220>
 <221> unsure

<222> (1)..(478)

<223> n = a or c or g or t

<400> 491

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agtcaagtac tttctttaaag aaacaatagc accacattgg catagctggg ccaaacaata 60
aatgggaaaag caaaatgtgc tacatctttt attctaagcc ttctcccaag tgcataaaaat 120
agtaacagaa accctggagc cacagagcat gagatcgggt tcatctacac aaacattgac 180
gttccaagga gaggaaggat tctcaagggt ggacaggcct tttgtttgtt tgtttgtttt 240
ttaataaaaat tttcaaggaa gtgatttctt ttcagtattc cattggatcc ttaggggtgaa 300
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tctgtgtatg taggggtggg 360
gttaagagat tttcatatcc ctaagaaaga gtggattcng atggagagct gcattaactt 420
tttcagggga actgcctcat cttaaaaagt ncaaactctg tgccgaattc ctgcagcc 478

```

<210> 492

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N68350

<400> 492

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accggctaaa agctttaatc cagagcctgc cctactctga tagtaccaga gtggaggggca 60
gaataccaaa tgtccaggaa ccaaaggcag ggctgtgggg acctgaagag cagcacagtg 120
gggcccgtgc tgctgtgggg gaaactgagg ctgggagctc agcagagacc ggtgtcaaga 180
gtctctggga actgcatagg cctgaggaac atgcattttc aagttgtcca ttgatggttt 240
cgtacctgaa tttctcacct tttgtgaaca tcttgggagg gtggggggtt tgcaggggtg 300
ttaaaagcaa ggcttgggag cccctttcct ccagctgggt gctccttctc agggcctggc 360
ctcattcagg ccactttgta gagaaatgcc ctgacctcgc aggaaggatt tcccc 415

```

<210> 493

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N69207

<400> 493

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tttcttttatt atactttttat tgtttggtta attcattttt gtctgttaca aataaaatttc 60
aaactagaga gtcacagatg ttaataaaact cgcccaatgc atcacctgcc tccgaattcc 120
atagtttcca ctgccttgcg ctacttgcac tctgattaga gaatggtaat gtgtgcctct 180
ctgaatcaag ttcaagaata aatgccctat cctggctaac acggtgaaac cccgtctcta 240
ctaaaaatac aaaaaattag ccgggcgcacg atggcgggcg cctgc 285

```

<210> 494

<211> 293

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N69222

<220>

<221> unsure

<222> (1)..(284)

<223> n = a or c or g or t

<400> 494

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ttttatgagc aagcgtgggt tatttcataa atgcaagggt agcttaacat tgaaaaactta 60
atctaattta taattatgta aatgaaagaa taaaaataat atgatacagc taatatattac 120
agaaactgca tttaataaaaa ttcaacattc attcatgatt taaacaataa aagaaaactc 180
ttaacaaata agaatagaag anaccttcaa cagtctgact ttaaaaagag aaagccccag 240
aaagcctatg naaacatttt acttaatggg aagataaagt ttttttctaa aaa 293

```

<210> 495

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N72253

<220>

<221> unsure

<222> (1)..(320)

<223> n = a or c or g or t

<400> 495

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cctttttctt aaggaatcca ttcattgttg aagcccagat tccctaacat atgcactagt 60
ggttggctct gggaagtaac agtcaccaga gtctggaagt tcttcgcttg aactttgagt 120
agccactggg actattggaa gccagatggc canggtattg gnaaatgggc aaggggaaat 180
cccaagctgg gctcaagagc cgtggggttag ggaagaagaa ggtcaagtgg actggtaaaa 240
attctacttc aactgccctt attcatagat acaactttcc taacagtctc actctccacc 300
agtcccatat ccacaacca 320

```

<210> 496

<211> 465

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N74291

<220>

<221> unsure

<222> (1)..(465)

<223> n = a or c or g or t

<400> 496

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agagaataaa acttggattt attcagaccg tatgcttccc atttgggggtg cagagtgggg 60
gacagtcatg gggacagaga aaggcagtcg atttggcttc tagggacatg ctgattgctg 120
actctttggg tgacctttgg gccaccagat gaccagctga atgatggaga tggatgatgaa 180
ggggctggcg gccaggtcct tctggagacc tcacagtgat tccaaacaga gaccaacgct 240
gtgtccagtt ggctctgttc ctctccaggg attaaggagc agatggctgg gaacactcag 300
actaattaaa gaaataaaaa ctctgggttag aggggacactc tggggggctc caattcaggc 360
agtgggtgtg aaattcacac atgtcgatgc gtggggccagg cccgtgtgaa aaacatgtgt 420
gtgtcngtat atattacatc ctccacaagc anctgggagc cccca 465

```

<210> 497

<211> 212

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N75870

<400> 497

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tcagcactga tggaaaatac cagtgttggg ttttttttta gttgccaaca gttgtatgtt 60
tgctgattat ttatgacctg aactgattat ttatgacctg aaataatata tttcttcttc 120
taagaagaca ttttgttaca taaggatgac ttttttatac aatggaataa attatggcat 180
ttctattgaa aaaaaaaaaa aaaaaaaaaa aa 212
```

<210> 498

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N75960

<400> 498

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ttaaattaat agatcaaaaag ctgctcgcat tacagagaca accaatagta tgaaaaaacc 60
agcatgctat caccaaaatc caaactaaga aaaactctac aaggtaaaca acacaacttc 120
ttcaacaaat atattgtaag agggcagaga gatgctgatg aaccaatagg tgagtgaacc 180
ccaaacctgc agcttcagat cacctgggaa tttggtagag atgcaattt 229
```

<210> 499

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N78630

<220>

<221> unsure

<222> (1)..(440)

<223> n = a or c or g or t

<400> 499

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gtttattaaa ccagatttat tctccacaag ctgaagatac ctgagggttac atgaggactg 60
gcattaaata atttataaat gtatttttga ctgacagact tttatcataa ggattcatgt 120
gtttacaaaa gcaaaatcca acctctccag agctagaaag tgggaagggtg cccgggctgc 180
aacacagcct tgggggagga tgaggccaca taattctctc tgcccacact ctcagaatgc 240
cccaagaagt tagtagctac acaaagccaa gccttggggg aaaacctggt ccgtggtgtg 300
gactctccaa aatgcagacc caaccggang ccgggcccgc ctttccatct ggaggcactg 360
cagggcttct gaaagcggcc catcccagga gcctggcaaa cacccccaga gaccctcagg 420
atgcgcagcc ccggggcttt 440
```

<210> 500

<211> 144

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N79070

<400> 500
 cttttctttat aaattttatta cataataata ttataataat tattatcaat aataataata 60
 taagaaacat agatctctgt ggggcgtatc acaacgtcag ggtcaggagg cctcaggact 120
 ggagcagggg gtgaaacccc ggga 144

<210> 501
 <211> 446
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N79778

<400> 501
 atggttagaaa attttaatat atgatttttg tagggccaat acatagtaaa gacatagctt 60
 tttttcaatt gaaccgaata aaatgatgta tttcagtaaa ttaaggcaaa ggagatagat 120
 gctatgacca gtggtgcaaa atttttcaaa aattttataca ttagatttac ctttacaagg 180
 ttatagtcaa gaataattaa tttgtatttt aagcaaactc tactgctttt caaaaaatgt 240
 cttaatcttg agtgaggaat agtgaaggta atcttaatat actgtttaac tttaaaaaat 300
 aatttttagaa ttatagaaaa gtttcaaaa gagtatagaa tttatgcaca cccttctgcc 360
 agctttccctt aatgttaaca atgtacataa ccataatatg attttccaaa accaggaaat 420
 taacattaca gtagtgtttt aatttt 446

<210> 502
 <211> 409
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N80129

<220>
 <221> unsure
 <222> (1)..(409)
 <223> n = a or c or g or t

<400> 502
 agtctagatg aattttattgc cattcacata tttcatagaa aaaaagatgt agcaaacggg 60
 tcagggttgc acaaaaaaaaa aaaaaaatcc aggtttatat aggttgctct atttacctct 120
 gagagcacag ctgtcctggc atcaggcaca gcagctgcac ttgtctgacg tcccttttgc 180
 gatgcagccc tgggcacact tggcacagcc cacaggnang caggagcag cagctcttct 240
 tgcaggaggt gcatttgcac tctttgcatt tgcaggagcc ggcacaggca caggagccaa 300
 caggcgangc aggagcagtt ggggtccatt tgcaggcaag gagaagcagg agttcccgat 360
 tcaagaggaa aacacgcagc gggacagatt ctogtgccga attcttggc 409

<210> 503
 <211> 406
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N80152

<400> 503
 acctctgtca atgattcttt tgagaaaagc acccataatt tgctacttga ggatttttatt 60
 ccctggattc tctggatgct cattgcatga aaagtggaaa agtttagatc tatggaaaca 120

```

gaactgttgc ctatatcgga aaatcagtg cttgtggaat acaggtaaga acagtgttgc 180
tcttgaaaaa gtggacagtg ggtggtctga atgtgtcctg gtccctggag tgggttttta 240
gattgatgtg gactcttctt agacttgtaa gtaaaaaagt tgtttcttcc cctaaaaggg 300
aactcgtgcg ccttagacct gggaattttgc tgggaaactg aaacattctg tagactttac 360
ttgtttccaa ctgtatcgca gcaagaagtc tatgtgcccc aggatc 406

```

<210> 504

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N91461

<220>

<221> unsure

<222> (1)..(508)

<223> n = a or c or g or t

<400> 504

```

ctttacattg tctaatagac ttgtttatta ttttaagctg gtaaaaagag acttatgatt 60
catgttgaag aaagagttat ttgtgcttga tacattgaag acactgttca aaagcagttt 120
gtccttataa aaggatgacc cctgtagtat ttcttaggca aggagggaca aattcaacca 180
acgaaaagca catctcgccc cgagttcccc atgatttctc cacatatagc aaaaaaatac 240
acatcagtaa tttatttgaa catgcacatc agtgagtagg cancagttct ncggcgggcta 300
ctcaagacaa caanngggag aatatcagca ttacctaaat aaaaaagaga ggtgaatcac 360
accattttta ttgtctttaa aacacggata agaagagcaa ttaaaatata gtccataaca 420
gtactagcta atgtagatta cntaagtata ccatatgatt ccactaatag tgctctgaca 480
agcataaccn ccagttctag ttaaccag 508

```

<210> 505

<211> 154

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N91887

<220>

<221> unsure

<222> (1)..(154)

<223> n = a or c or g or t

<400> 505

```

atattttatta ttttattgct acattggaag tgaaaataaa ctgtaagaag ctgccaaagg 60
atgcaacttc atgaagatta tgaaactatt gaggcacca ttgtagaaag ttaaaattgg 120
cttatcctgc atgaggtgga agcnaaggcc tccc 154

```

<210> 506

<211> 169

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N91971

<400> 506
 gttttgaaca cagatcactt tattggcatg gctttgtttt aagaaaagga aaagtgacaa 60
 agccaagaga cagactctgc taacagatgc ctgggggtgg ctggacattt ttgcctcatg 120
 ctgtgcaaag agggggatcc tggcccacac atcctgctga ttccttggg 169

<210> 507
 <211> 139
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N91973

<400> 507
 tttttttttt tttttttttt atggggcagc ggggggtctt attcgtcaga ttttccttct 60
 tggcctactc cccaggtgtg gccagggata gtccatacag tgtggctact gcaaggctcag 120
 gatggccagc agaccagc 139

<210> 508
 <211> 395
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N92239

<220>
 <221> unsure
 <222> (1)..(395)
 <223> n = a or c or g or t

<400> 508
 tcagaaaact aaagcagcac ctttatttta tacatacaaa cagtataaaa tgtttattag 60
 gtaagagctg tgttttgttt acaatatatt atattgcttc aagccaatgc aaaaagttca 120
 tacattatat tccctatttc attgtgttta gaatatatta tattgtttta atgccantac 180
 cacagtgtaa tttttttttt ttttaatactg aatctctgga ataatggtaa ggtcaaaata 240
 tattgtattg agagttttaa aattaagagc aattttttaa aatgtaacaa acatctaaat 300
 atctgacaat aaaatctgaa atgctgtaac ttcaacatta actgcaccat ccaaattcct 360
 gtgacttacg cattttgccc catttaacct ttctg 395

<210> 509
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. N92502

<220>
 <221> unsure
 <222> (1)..(510)
 <223> n = a or c or g or t

<400> 509
 tttttttatc aaacaagttt cttttattgt ttccacacat tcataataac tatagaacag 60
 aaagattgtt ttaatttgct gtcctacttc ggtgacctga tgaatacact ggtaacagtc 120

```

cccagtttga gtaagatcag ttgaagccct tactgtataa gtccaaaatt taagaaaaat 180
gaatctcacg atgagcttcc tcaggcttcg gccgtgcgtg gaccagtcag cttccgggtg 240
tgactggagc agggcttgtc gtcttcttca gggtcactct gaaagggttg tctgggcttg 300
gtcttgccctc ccaggtttca cgcgctgcag gttttacatg gctgtgggtg atccaggctg 360
ggattccttc tacttcacag cgggtgggagg gctcagaacg acagctgggg tctttccaca 420
gtggacacaa agaggtacgt tccagttctt gatcaaatng atcactgggg agaaaagggtg 480
aactgggggag aataantaac aggccattta 510

```

<210> 510

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N93798

<220>

<221> unsure

<222> (1)..(270)

<223> n = a or c or g or t

<400> 510

```

cacggctcct gttttattgc cttcgggtgt ccggagcacc tgactgcccc ggggtctaata 60
aatttaagggt gccgagaaca ggtcaggaca aggggtcgca aaanaggggc tgggggcagn 120
tggttacaaa atataccccc accccacaac aaacaggcta gaggagacca gcctggctgt 180
gtcggggangg ggcgggcaga gggcgcccca ccagccttca gagagacaga gccacggcca 240
gcgccccaga gggagtggcg gagacaggac 270

```

<210> 511

<211> 399

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N94303

<220>

<221> unsure

<222> (1)..(399)

<223> n = a or c or g or t

<400> 511

```

tttttttagca agacaagggtg tttttattga ggtctcagga attgcaattt gggagacaga 60
ttcagctaga agccacttgt gttctgaaga gagagggtag aggaggggtt tttaaaaaaa 120
gctgagggtg attagacaag ttgacaagtt gttttgaaag aggcaactgg cttagtacaa 180
aaatccatag tttattgggtt ggtgctgttg aggagtgtga gtgctgggtga aataaaaattt 240
tccaggatgc agtgggtcatc gcaatttggc ccaattcaaa ggttcaagggt aagctcctgt 300
attgtttttt tttttggagc ttttaatttt ttttcaagtt gcagggtcatg tagggagtcc 360
nttttaagaa tggcttcctc cctccaattt agagttcct 399

```

<210> 512

<211> 508

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N94424

<220>

<221> unsure

<222> (1)..(508)

<223> n = a or c or g or t

<400> 512

```

tttttttttt ttattatttta gaaatgtaaa cattttatttta aaagtaggta gcaagtttaa 60
aatgaataact tgcctgaaat cataaaacat aatcaagttc tttttaaaac agttaatttt 120
tttcctataa tttacttttca tcgaaagtat attatctttg tttaacatgc tagatagaag 180
caatttagca acataaaata tattagctat agtatgttca aaagaatgag aaatataaat 240
tcagagatga gaccatcatt ttttgcagtt aaaaaaaaaa atgttgattc tgggtgcaaca 300
tacactgatt atccaggttt tacatttttag ggctgaaacc ctgaggaacc tgctgggtgac 360
tggttagcac tngagcagag ttcagtgtgg catgcgcttc ccagagttaa aagcnaaaagc 420
agactggaga aacnaaaaac ccacatcctt ggcatttcng aggttttcac ctggtaatcn 480
tagggtttcc ccaattttatt agaattgtt                                     508

```

<210> 513

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N95495

<220>

<221> unsure

<222> (1)..(462)

<223> n = a or c or g or t

<400> 513

```

tttttgccaa acatttagagt ttgtttttatt gcatgacgtt tgcataagaa aaaaagttat 60
tgaaaactgt aaggcatcat gcaatcattg aataagctaa ttattaactg tacacttaag 120
ataggtggac atataatcta aaattttaaa actagttcca gaaaagtaca taaaaaat 180
aacatgatga gctttttaa atgggtttata gtttcatgtt gttaaaaagt gcttcaa 240
tactgctgga aagttgctct ttacaaatgg cgctgggggtg atgtcagatt ataaactgta 300
aaaaccaagt acttttatgg aattagaaag ctaacattgt gatccccaac ttcttgaacc 360
agtttttcaat cccatttcaa attaagttga ttaatatata taactaaaa cactgggtta 420
tcccccaaaa ggcttggtatc cagtagnctg tggccacca tc                                     462

```

<210> 514

<211> 197

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. N98485

<400> 514

```

tttttttttt tttttgttat atacatttta ttgaaaaaaa attttacaac aaaatatatt 60
ggcaaaactgt aaaagtatac ataagtgcaa atatatcctc cttttaaaat acaagcaa 120
tgtgagtata cacggtcata aaaatatctt taaaatatgg tggtagaaaa caaccttgta 180
aaaacgttgt attgtcc                                     197

```

<210> 515

<211> 340
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R00144

<220>
 <221> unsure
 <222> (1)..(340)
 <223> n = a or c or g or t

<400> 515
 tctaaaatat aattgtttat cccaatgtca ctccacccag gctgcagtga tggcnaaatc 60
 actgtaacct cgaacacctg gottcaagca agcctcccct aagcttccca cactggtggg 120
 attgcaggca tgagccacta ttgtctgagc agtggctctt cctgcaggct ggcttaccct 180
 ctgcatccca cccatcctgc aggtgaggct gaccatgccc ctagggtcca agagtcaagg 240
 gtaatgaaca caccatcac ctntcaaaag tgacggctct gtcctcatca atatgaggga 300
 ntttctcan ttcttggcat aatcagctca ggggacacaa 340

<210> 516
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R01257

<220>
 <221> unsure
 <222> (1)..(417)
 <223> n = a or c or g or t

<400> 516
 aactattcctt gttttatatt ttattatact ggaacagctc gtgtcctctg tctcttgcct 60
 cggtgccttg gtggcttgcg cccacnatct cccccctttt tattaactag aatcgccatc 120
 gccatcattg cttgttggtg acttcggact tggtttcgga ctcttagag gcactctgcag 180
 actaaaagga gacaacataa gcataccaat attaataatg ccagtaacaa caatgatcct 240
 ctgacggggt gagccattt gaagggatta aaatcagggt aattgttttag ttatgccttc 300
 aaaaatgtgt gagccaggga actgtgggat aaatggggct tgtgaagcct ccaaagatct 360
 gctctttaag gttgtggaaa tatcccaagg gttaagggtta tcatccngg gggttttt 417

<210> 517
 <211> 258
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R02003

<220>
 <221> unsure
 <222> (1)..(258)
 <223> n = a or c or g or t

<400> 517


```

tgantntntca tagggctcgg cgtgggaaca gagcgcagga gtctgggggtg ctccaccggc 60
ggggaggggg cgcgagtcce ctctggggg gatcggggt gctaggcagg ggtggtggcg 120
caagaaggggt ctcgaggacc ggggggtctg gaggtggagg agtctcagca tcttgtttcc 180
tgtgctcctt cccagcaggt gcaggccctt ctgcctgggg tcccctctgg aaggccctcg 240
gtttcccccg cgccaagg                                258

```

<210> 518

<211> 294

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R08850

<220>

<221> unsure

<222> (1)..(294)

<223> n = a or c or g or t

<400> 518

```

ttccnaaanc aggcagttaa tgtgctgaca tagtaacaag gtttgaagga ggaacatctc 60
atgcacgtgc gtggaaaccc aattgtcatg tgtatgaact acaaaaggat ggggaaaaga 120
acacatttcc tcacaacagg antacatgag attagaaaga aaaccggant gaggtagatg 180
catgantgca cagacaaggn tatgtgacag gaagctgggt gacattttgc atctgacata 240
gcagtacacc tagagagccc aaggaantcc acccccaagt taccagaggc aaga          294

```

<210> 519

<211> 413

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R09379

<220>

<221> unsure

<222> (1)..(413)

<223> n = a or c or g or t

<400> 519

```

ttggnttgag tttggccttt cctactgcag ccaggtgaga gcttaagatg tcagtcccca 60
atatcttcac agagtgcctt tatgaccagt ttggagaatt acgatggtaa ggggaagagg 120
cagatatgaa gaggaatggg taggggaatt gtcattcata actctgtgct atattacttg 180
aggggctaag aaaaatgtat ggtcagtgaa acacagtagt gtacccttaa atgccttata 240
aaagaccatc catccagtct gcgcttttga ctgtgtgcaa gtatcagtaa taatgctttt 300
ggggggctca gatgaacagc gaacacccaa tcagccaggg gctctgggaa gggaaagctc 360
ccaaaaatga ggaagtcctt tccaacaccc atttttccca ttactgttct cac          413

```

<210> 520

<211> 319

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R10896

```

<400> 520
ttaagccatc caagtaaaaa aaaaaatttt aatttaacaa tgaaaaagga acttcaaagg 60
gtttatgcca aaaaacaaac cagtcctctg cagcctaact catttgtttt tgggctgcga 120
ccattgtaga gggcgatcag gcagtagatg gtccctccca cagtcagcgc catgggtggtc 180
cggtaaagca tttggtcagg caggcctcgt ttcaggtaga cgggcacacc atcagctttc 240
tggaaaaaact tttgtagctc tggaactttg tttttcccag cataatcata ccctgtggga 300
atcggagggtc agtttagtt                                     319

```

<210> 521

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R11526

<220>

<221> unsure

<222> (1)..(318)

<223> n = a or c or g or t

```

<400> 521
ttttagtagc cgaccatttc tttattaaat tatacaaaan ggngggggag gggggcagct 60
gtgggggctc gcaanacccn ggccccaccc cggcctggcg ctgtctgaga agaggggatc 120
tgaggagat ccagggatca ggcaggatag ggatggggca ggacatgagg ctgggggatg 180
cagagggttag gtgggagagg ctaccngaga aggaatgagg ctggtagggg agggagaaag 240
agagcaaaga gagagaggag caattggggg ccagctggag agctcagatg gagcagggtca 300
ggagggtgga caatggca                                     318

```

<210> 522

<211> 362

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R15108

<220>

<221> unsure

<222> (1)..(362)

<223> n = a or c or g or t

```

<400> 522
tttttttttt tttttttttt ttttaacggta gaaccaangt ttattaatga cagcctttat 60
tacaatcact ctcaagtgtg aaaaataaag ggtgattaat taatatttaa aactcactcg 120
gacttgctgt ttggcctttc agtggatgtg ccaaagggaa gggatcttgc ctgattctga 180
atcaattggc cagatggagt tcactggaga atgaggcaat caacaaaaaa gacaaatgat 240
gccaactgga gagagctcgt gtcttctcca tgttggaagg acattacaaa atggcaactn 300
tgggtggggg cagagatgaa gtaagacaac cttacagtcg gagtaagatg tgaataacct 360
tt                                     362

```

<210> 523

<211> 416

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R16983

<220>

<221> unsure

<222> (1)..(416)

<223> n = a or c or g or t

<400> 523

```

ttgcagagac aagtgaacat ttatTTTTgt acctttcttc ctatgtgtat ttcaagtctt 60
tttcaaaaca aggctgagg aatctccaga ttcaattatg tccctgggct ttgtcgacag 120
ctgcaggagt cttagggagc cttgtacaaa tgctagagtt actcatttac caacattaaa 180
cccgagaata gaagatgcaa caaagcaggt ttccttcctc catgggaaag tgctgatttc 240
agacaagggc agcagccaat gtaggaaaaat gctgggaatt tttccttggg aactgggact 300
gtggatgaga ggggtgctttg cccatggaac cataaggcta ctgtcttttc ttttgggnccc 360
ttccctttcc caggtttttg gaaggnataa aggccgggaa ataaatcttt ctctgg 416

```

<210> 524

<211> 234

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R25410

<400> 524

```

gtggacaaat cttttatttt ctgaagacaa gtgatttgaa gtccagactg aatggcattt 60
aagaattagg aatcctgctg gccatcctgg agtgaattaa actaaattag agtccagaat 120
atgcagcttc tttaagaaaa aattctcctc tgaaatattt tctttccac tgcattaagt 180
agtgttcctc atgagacatc tggaaaacat tgattgttaa aatgtgggtc tggg 234

```

<210> 525

<211> 419

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R28370

<220>

<221> unsure

<222> (1)..(419)

<223> n = a or c or g or t

<400> 525

```

anatggatat tagttcttta ttgagaatca gaaatatttt aaatttacta aattcagagg 60
tagtcatggc ctctcccaa taaactttac agtcttagac aatttgtgca ttttaataaa 120
ttcttagtta tagtattaaa gaaagtggct gggcgcgggg gctcacgcct ggtaatccca 180
ggcacttttg gaggtccagg gcagaggcag ggcagatcat gaggtcagga gatcgagacc 240
atcctgggct aacacgggtg aaccccgctc ctactacaaa cacaaaaaaa ttaggccggg 300
cgtgggagac agggcacccg taggtcccg gtacttcggg gagggctgag gacagggagg 360
aattgctttg aacccgggga ggccaaggtt ncagtttnagg cccgagattc acgggnact 419

```

<210> 526

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R31679

<220>

<221> unsure

<222> (1)..(431)

<223> n = a or c or g or t

<400> 526

```
acttccaaga tnaacatttt tctgttttatt cttagaatgt gaattttttt tttcaactca 60
gggccaagta caaacttttg atttttgaaa ttttttcaac tcagggccaa gtacaatctt 120
ttgatttaaa aatttttttt catgaacaaa ccatcagtag ttattaagga gccaagaaa 180
taggagatgt gaaagcagga tttctttgtg tttcctttga atgttggtat tttgagtatt 240
atcattatca gggtaggagg gaaggaaagg gtagggctgg ggaaggtagg gtccttatgg 300
atatcttgac tatgggatcc ccaggattta catttcacct ggtcacagn gcacacataa 360
tttaggataa acatgttcaa ggaatggaca taaacagagg ggtaaaca ggggggcttt 420
acatttgggg g                                     431
```

<210> 527

<211> 247

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R33627

<220>

<221> unsure

<222> (1)..(247)

<223> n = a or c or g or t

<400> 527

```
aaaaaaaaact tttgaatcat ttattctttg gttgtctaca nagacactta agtactgtat 60
cgctgtcatg cagcggcctg tggaggccct ggggggtggct gggcctgtgt cctgagccct 120
cagccagatc caggggggtgc ggtgtctggt catgtccact ccaagagcag tagcaccatg 180
tagaaggctg tgagcagggt cccctcggct gagtggcaga tgtaggctca ctgctntgca 240
gccccaa                                     247
```

<210> 528

<211> 282

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R36881

<220>

<221> unsure

<222> (1)..(282)

<223> n = a or c or g or t

<400> 528

```
tttttttttt ngtgattata cgttttatta gactcnggga ggggtaatgg caaggncctt 60
atcangtggt ccttcaaatt aaaaaaaaaa aatacaaaaag ctacgtagaa aacgtcagat 120
```

```

cagacgacta aactttcccg actcagggcc aagttcttct tgagcctgcg ctctcgggac 180
gcctgcgagt cggctctccga gtacgggggc ggcgcgggcy ggtagtaggc ctcttcctcc 240
tcctccttgt ggggtctcct cctctcctcc gaccccttct tc 282

```

```

<210> 529
<211> 428
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. R36969

```

```

<220>
<221> unsure
<222> (1)..(428)
<223> n = a or c or g or t

```

```

<400> 529
tttttttttt ttcaagttgc tttttccctt tttattaaaa atagactcaa gcactttant 60
gtatcatata aaagtttcat tcgctgggtgg cagccacggg aaagactggc ccgtagcac 120
tgattttcca cctcccctcc agggacttgg gtcccaggag cagtgactgg gcctcagaga 180
aagcccataa agactgctta ctctggaagc agccgactag gggctnttcc gcgagcagct 240
ntccccaccc cacccaatgg caaaagttag atactcgaaa gtgcctcttc agtgccaaga 300
taaactaaca agtgggagtg aaatgggaaa accctttgat ttttttacta ttttcccagg 360
ggcctggggg ntttttnagtt tttccctgca attcaaagtc cttttttccc ttacaatagg 420
ggggtagg 428

```

```

<210> 530
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. R37588

```

```

<220>
<221> unsure
<222> (1)..(507)
<223> n = a or c or g or t

```

```

<400> 530
tttttttttta gaattcaggt agtgtttttg tttattatct tagtgttgtc acaagtgata 60
gaaacccccca ngaagtngga angaaagagc tccntgcntg gacctacatt ttgccattcc 120
cctcttgccc tgggntcaga accttgaagc ctttgcttgg cccttgcatg ttaggatatg 180
gccaagaatc agaaactgat gcgtttttcc agcactacct gtgtgctgca ctcatggaag 240
gtgggaagct atacacaggt atccaacttg gttataagac accagttccc acagggctgg 300
atctctcagc tgtctgggta aaccagtggc acttcactgc cccaggggtg gctggctccc 360
tttctgaatt tctgtctcaa tgtgatataa ttgccaccat tcaggatggc taccacatt 420
ttgggtatgaa caccatgact tctttaaggc aacgggggct ttcctnctca gaacagtgcc 480
cctgnaattt ttcctcctgt gggcttt 507

```

```

<210> 531
<211> 239
<212> DNA
<213> Homo sapiens

```

<220>

<223> Genbank Accession No. R37774

<220>

<221> unsure

<222> (1)..(239)

<223> n = a or c or g or t

<400> 531

```

tttttttttta tgtattttcca aaatcacaaa atgcacaaca ttcattngttt ttaatatattgc 60
aacatggaat attatatata gattaaaacc acgacagcaa aaacactcac acggtaccag 120
tttcatatca aaacaaaaca cacaagtgtc ttttcaatat taaaacgact gtgataaaaa 180
catattaata ttttgaacca tgttttacaat agngcaaaaat tcatatttta ctaaataaac 239

```

<210> 532

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R38678

<220>

<221> unsure

<222> (1)..(237)

<223> n = a or c or g or t

<400> 532

```

ttttttttttt tttttttttt ttttttcng ttggaaattt tttatttacc actgcaagggt 60
ttttgtctcca aagtgtcaca ccagacatat gactacaatg tctcatgcat ctttttgtgc 120
tttagttcat gactgcaaaa cacacactta gcatttgaca acaggaaaca cagagggcag 180
aaacaaatca caaggactag ttgggttagg ttacagccac attttccccg gggctcc 237

```

<210> 533

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R38709

<220>

<221> unsure

<222> (1)..(401)

<223> n = a or c or g or t

<400> 533

```

ttttttttttt tttttttgat ttctcaacat caaagtttaa ttattacaaa atagttcaag 60
caacatgata tgantttcaa aaactgtatg ttgcttngct tcctngtttt gctccaacac 120
taatcatgct gaggtttttg aagcacagct atgactaggg caggcactct tgattttcagt 180
cacaaaaaac cttcttgat gaacaatact tgttcttttc agaagaaaag caattttacc 240
ttttctatatt ctattatgaa aaacagagct aaacaatttt tgtattttta gtagagacag 300
ggncccacca cgtggccac gntgggtctc ganctccttt caagntgttc tgccctgccc 360
ggcctnccaa agtgccggg nctacaggat ntgaggncac c 401

```

<210> 534

<211> 340
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R39467

<220>
 <221> unsure
 <222> (1)..(340)
 <223> n = a or c or g or t

<400> 534
 gagccacctc ggggtgactg agcggaaggc caggcagggc ttccctcctc ttccctcctcc 60
 ccttcctcgg gaggtccccc agaccctggc atgggatggg ctgggatctt ctctgtgaat 120
 ccacccttgg ctacccccac cctgggctac cccaacggca tcccaaggcc aggtggggccc 180
 ttagctgagg gaaggtacga gctccctgct ggagcctggg gacccatggg cacaggccag 240
 ggcagcccgg agctngngtg ggggcnttag tnggggggtg ntgcttgacc cccagcacia 300
 taaaaatgaa acgttgaaaa aaaaaaaaaa aaaaaaatat 340

<210> 535
 <211> 197
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R40431

<400> 535
 tttttttttt tttttttgtc ttgtgtgtat ttttatttca gggaaagaaa tgagggatat 60
 gataagaaaa agtctattaa aattgtaagg cttactccag acaccattgc ttaaatact 120
 cccctcgcac acagagagaa aacccttggg caagtgcaca aaaacactac tcataaaagc 180
 acgggtgacc agtgaac 197

<210> 536
 <211> 464
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R42241

<220>
 <221> unsure
 <222> (1)..(464)
 <223> n = a or c or g or t

<400> 536
 tttttttttt ttttgaaaac agaattatatt attgcataca gcatgggact gtgatcaacc 60
 tggncatcaa atgccgcgat ggctgacagg gcccaggcgg cgggagtgtt gggaagccca 120
 gtacacgtgc tccctctctg tgggactccg ggatccacgg ggcggatggg tctntgagtt 180
 gcgagttgtt cctgtttgtc ttccagcccc cagtccctcc cggccactct gattagccag 240
 cctagggttag ggcttggcat aaagtcacac aggcaaacc cagaagaagg aaaaaggcca 300
 cctgcatgaa caaagagttg ggttgcagag gntgcaccgg ggtaagactt ccttcatgca 360
 gttnggagtc cncatgtn gggacatcag gagatgncac cncacagaat tggtnngctag 420
 gttttnctgg gttttggccc agagaggctn attcccattt tttt 464

<210> 537
 <211> 318
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R42424

<400> 537
 tttttttttt actttctgtg agcttatgag gccattctgc acattatcaa aatgaaatca 60
 ttatgcagta accttatata tataaatcca attttttcct ttgtagaaga aaaccaaaat 120
 aattttacaa actacattta acttagtaat ataaagaact gactagtgtg aaattttgaa 180
 aatctaccac tttattttga agggaaagggt acacatcctt caaaaccccg gctaacaatt 240
 cctagggttca gttttctatt atacaaatca aaagggttaa ttccttgtgg gcaactaacca 300
 aaacttttaa aattaacg 318

<210> 538
 <211> 243
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R42607

<220>
 <221> unsure
 <222> (1)..(243)
 <223> n = a or c or g or t

<400> 538
 tttttttttt aggctttgca aaatacattht aatgatctct ttcaaacaag tggtactcgn 60
 gttttctttg ctttctggag cttaaagggg tatcgatgag gcagcagtcg cgggagaccc 120
 aacatgctct tggcagatac tggattatcc aactatcaaa aatggagctg tagaagaggc 180
 atgttnaact ggttaaaaca gaaagggtat tttagtacgg tcaagttgat ctaagtacag 240
 agg 243

<210> 539
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R44397

<220>
 <221> unsure
 <222> (1)..(270)
 <223> n = a or c or g or t

<400> 539
 tttttttttt tattgtatac acagtggaaa gctggtttta tttgggagac aatgggagct 60
 tttacattgt tgagcaaagg agtgacgaga tcagtcttgc tttttagaaa gattagtttg 120
 gcagttactt atttgaacc aganttagac agcaaatcgg gatgcagggg gagaagtcag 180
 gtgactatta gtctgcgagt aattctggga caagagcagt ggtaatggaa ttnaaaggga 240
 ttaaagtntt taccaggttt tggcataaat 270

<210> 540
 <211> 367
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R44535

<220>
 <221> unsure
 <222> (1) .. (367)
 <223> n = a or c or g or t

<400> 540
 tttntttccaa aaatcaccac ctttaataact ccccggtcct gcacacaccc acagtctcac 60
 tgggctccac cctcacttac tgcccgcgtt ggatggcctt ggaggctgcc tgcccgcgcc 120
 aggatgtttg gcacaaagag cagccccgaa gcccnctnaa tgntctcgat gggcaccagg 180
 taagcgnctc agtgggatgg cctnatccac aggtgcgttg ggcatcacgt aggtgcggan 240
 tncaatttgc ccantgntn cctccagggt cagcaccttg aagaagtttg tgggcactgc 300
 cangtgggtt ttgccgatga cctgggtant ttacgttaga tttcccatca gnctctgtcc 360
 atggggac 367

<210> 541
 <211> 398
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R44714

<220>
 <221> unsure
 <222> (1) .. (398)
 <223> n = a or c or g or t

<400> 541
 tttttttttt tttttttttt tttttgattt tnagcaggna cagttttgat tttattgcaa 60
 ggcacacaat cgtatataca atgcataatt atcatctttt aaagtacaag ataaaaatca 120
 tatacattat agtaaaganc atatgagtat attcttgttt cagagangaa anttgcctta 180
 aggaagctgg gttataccgt ttttgatgtt gattttcgta tttatactga atcatccgaa 240
 cagctcttgg ttaggaaaat aaatctcatt gatagggnca cacaacctt cacaggcttt 300
 cactttacaa tgttccantt taaaggtcag ccagtgtggc tccctggatt ttggcatggg 360
 gtcacgtttt tttcatcccn ggggtcttgg gttggaaa 398

<210> 542
 <211> 364
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R45654

<220>
 <221> unsure
 <222> (1) .. (364)

<223> n = a or c or g or t

```
<400> 542
ttttttttttg ccatgttttca tttccttttaa taatgaaaat ccataagggt ttaaaatact 60
cttagacaca cctagcttag caaatatcat ggacctctac atttatgtga attcacacat 120
gagctagcca gcacctcagt tctggctggc catcgacacc tgcttctccc tttggccctg 180
gggccaggga gccctggagg ccagggttccc ctctgcctcc tccaatggag ttgccagcat 240
cgcctttatc tcccttctgc cccaggaggc caggaagccc aggggagcct tcagccccct 300
tctcaccnt ntgccccntn tttncagca aacctggggg cccngnttc cttttgttc 360
ctgg 364
```

<210> 543

<211> 229

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R45698

```
<400> 543
ttttttttttt ttttttcatt ataaaagtca gtttattttc cttttctgtg tttcgtattt 60
tcccttttttg tcagtaaag agcaatacac tgactggaaa tctgcatgat taaataacat 120
taacaagtcc ataaacacac cccatatcag agtataaagc aagagggtga aaaatatccc 180
ctaaccgaat gccaaattag ggtatccctc aaaattgcac attctccct 229
```

<210> 544

<211> 254

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R46074

<220>

<221> unsure

<222> (1) .. (254)

<223> n = a or c or g or t

```
<400> 544
ttttttttttt tttttttttt tttttttttt ttattgcca ganccaaaga aaaaatttta 60
tttacaatag agaattttat ttgaaacatg ctttcttgt ttttttaaaa acaaatcagc 120
aatgcagat caagtttaca ctcttaagg caagagtccc tatgcacgct gtacatgttc 180
atattaaatc caaaagctgc tcaccgggg aacttgtgt caaagggcaa ggccaaggtc 240
agcaatgtgt cttt 254
```

<210> 545

<211> 338

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R49138

<220>

<221> unsure

<222> (1) .. (338)

<223> n = a or c or g or t

<400> 545

```

ttttntttttt tttttttttg ggagttgaga tattttattaa cagatggggg tgctgggggt 60
gggctcctgc cccagagggg ttgacaggtg gatgccgggt ggggagggct gcagggtctg 120
ctcctggcct ctntcctggc ttcatggtcc tgacancctc gggccancct cagggtctgg 180
agcgtactnt agcaccancc tttcaaagtc gttctccttg gcctgggtact ccttgatgaa 240
gggatggggac ctgtgggcat ccttcagctg ggacaggtat cggtttgtca cctcaggggg 300
nttgccagg nttgctnggaca ggacgatgag gttnacca 338

```

<210> 546

<211> 284

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R49327

<400> 546

```

ttttttttttt tttggaaaaa gaaatttttt ttttaattaga aaccaagttt acatacgggt 60
aaatgggttac taaaagctca gttgtaacca ctccctaacac cactagcaga acctcaagg 120
agccaagagc tcttcccttt tcccctgtta atttccagta taatgtagca gcacaattat 180
ttcatgtcac atttaagaag aacaagaacc aatttatata aaggtagaat tgtatatcct 240
taaacattcc acataaacac actgtcaaaa ctactggat atgc 284

```

<210> 547

<211> 414

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R51831

<220>

<221> unsure

<222> (1) .. (414)

<223> n = a or c or g or t

<400> 547

```

ttttttttttt ccatttttaaa ttatttttatt gtatatataa aaaccaaata aagcaataac 60
tttaaagacc tcacacacac acagtataaa cacctgggta aggttttntt cgtgtccatg 120
ttgacaccgg aactaccgtt aaagtgcagg ttttgttttg tgttcctttg tgcagtttca 180
ctcacatgta aacaagtcac ttggctatga tttgaccac gcccccccg nttagtttcgg 240
gagggcagag gctctaccgg ctgtcacagc aaccggant cacagncaag ntaatgcccc 300
gtgggtcctg accctgcaag cggggcatga cggtttcttg angcctagca gaggntgggt 360
aactttcaca tncctcccc accccgtggt tcactnttag gtttttgaga agtt 414

```

<210> 548

<211> 538

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R56183

<220>

<221> unsure

<222> (1)..(538)

<223> n = a or c or g or t

<400> 548

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gtaagatggc ggggtacgac ttaactactc gcatcacgca ccttttggat cggcatctag 60
tctttccgct ccttgagttt ctctctgtaa aggagatata taaagaaaag gaattattac 120
aaggtaaatt ggaccttctt agtgatgcca acatggtaga ctttgctatg gatgcataca 180
aaaaccttta ttctgatgat attcctcatg ctttgaaaaa gaatagaacc acagttgttg 240
cacaactgaa acagcttcag gcagaaacag aactaattgt gaaaatgttt gaagatccag 300
aaacgacaag gcaaattgcgg tcaaccaggg atggtaggat gctctttgac tacctgggcg 360
gacaagcatg gttttaggca ggagtattta gatacattct acacatatgc aaaattccca 420
gtattgaatg tggggaatta cttcaggagc agccagaatn tctttatttt tttcagagt 480
ttggttcccc caaccgacag anatgctgta agttcactct gggggaagct ggcctctg 538
```

<210> 549

<211> 364

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R56602

<400> 549

```
tttttttttg ctgttatgat tagatattta ttgagcacca ggagagagtc agaacattag 60
acttatagtg gaggagcaga actgaaccct ggctctgtgaa ataacaattt caattaaaag 120
ctgtctggcc ctgaagaaag agaaatgac ctggatatag ctggtcctct gagctggcag 180
agctgagcct cctcggggtc ttctgggtggg caagatgcca aagttgaata gtgtctgtag 240
ggcatgatga ccaagtccta gtgctatggg catcttccct ctggatattta ggagaggagt 300
accagaagcc cccggcagag gatactagga agggcccaga gccaaatcca gcagctgggc 360
ttac 364
```

<210> 550

<211> 181

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R58878

<220>

<221> unsure

<222> (1)..(181)

<223> n = a or c or g or t

<400> 550

```
caaacaggtc atttggtttt attttatgga tacaccaaaa ttttataatg agttgtgttt 60
ctatttttggc tttatcttcc agaaacttag aaccaaatat gcagtcctct tctagcaact 120
gtatgagagc aggtggtaag cttctatttn attgcccttg ttttcccttg actccaaatc 180
t 181
```

<210> 551

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R59593

<220>

<221> unsure

<222> (1)..(485)

<223> n = a or c or g or t

<400> 551

```

tttttttttt ttttttgcca ttgaaaagaa agtttaaatgt tacaattctc cccagaaatg 60
agggtcacatg catgccacag ggggccacat gaaactctgt cacaagcaga gaccacaaag 120
cagagagagg acctgagact atgcctttat tgctaagtca gtgggatgga tctaggtggg 180
gatgtcccct gtttgggcat aaagcaaaaa cagacattct atggttgtca ctgggaagtc 240
tgtgatatga gttttgtgca cccacgagag agggcttaaa aggatgatgt aaacaacttt 300
agccttttagt ttgtccctgt acttaatat tgtcaaatag ggcaaacaca aattctaagg 360
taaacacaga ttagttccgg gagcagcttg gcttatggca cacnttcagg gaaacacctt 420
ggcttaaatac ttacagggga ccacctgttt ttttcaaact ttgggggttat tccgtttctg 480
actttt                                     485

```

<210> 552

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R60056

<220>

<221> unsure

<222> (1)..(363)

<223> n = a or c or g or t

<400> 552

```

tttttttttt ttttataaaa ggaaacagac caacatcata gtgtttttatt gacaaaacca 60
taggaaaagg cagtttttagg atgtaaagta aaaatgggtc tctgaaatat ctacacaaac 120
gtgaattctg aaaagttttc attaaaatcg tatttcatac aattataaac taatgaggaa 180
caaaacaatt ttcaacttct ccataaccca gactgagctt gatttatgct tgccatacag 240
aagcagganc tcttcccaga gagggtggtg gctccacac agctgacagc cagggttggc 300
tgtttaccta agccccatct tcccagtcgg tgttcaaaac aagggcacaa ggtctgggct 360
tttcaaaaaa aa                                     372

```

<210> 553

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R60777

<220>

<221> unsure

<222> (1)..(387)

<223> n = a or c or g or t

<400> 553

```

tttttttttt tttttttatt taaatggaaa cactaatctt tattttcatc atgctgaagt 60

```

```

gtgtgggttac aatttccaat aaaacactat atataataag caaaataagt tagtacattg 120
taaactttatg cacagtttca tcaattaaca gtttaaganc aaacaagcca ttttaagactt 180
tggagctaca tttagtaaaa nattgcaaac actcaaactt tatcaacccc aagtaagaca 240
gtaaagagct attcaagact tcttcaaacc aattacacaa ntacatgttt attttttggtt 300
acagtccctt ggctatgcac aaggaccatt gggaatgctg ggancaattt acacatttta 360
aaaacgggca aaaaggcaaa gcaaggg                                     387

```

<210> 554

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R69417

<220>

<221> unsure

<222> (1) .. (350)

<223> n = a or c or g or t

<400> 554

```

ttttgtgggg ggggcaacta aacaaacaca aagtattctg tgtcagggtat tgggctggac 60
agggcagttg tgtgttgagg tgggtttttt ctctattttt ttgtttgttt cttgtttttt 120
aataatgttt acaatctgcc tcaatcactc tgtcttttat aaagattcca cctccagtcc 180
tctctctctc cccctactca ggcccttgag gctaattagg agatgcttga agaactcaac 240
aaaatcccaa tccaagtcaa actttgcaca tatttatatt tatattcaga aaagaaacat 300
ttcagtaatt tataaataaa ggggcactat tttttaatga aaanaatttg          350

```

<210> 555

<211> 284

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R71395

<220>

<221> unsure

<222> (1) .. (284)

<223> n = a or c or g or t

<400> 555

```

tggaaaaaan nacaacttta ttttcagtca tttctatttc cttgggttatg aacaaaggta 60
gcaaagtgca gttgtatcag cagtgccaat agaaattaca gagtttttca tatcccttta 120
cagtttgcca caggatatctt aaaatattgt ttacactcat ctctcttcag tttaccattg 180
tttaataggc ctaccctcga tctttttatt caatatgtta ataaagaaac ctatacacat 240
agtatcacgt tatacathtt aaaantnttt tgacaactgt atat                    284

```

<210> 556

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R71792

<220>
 <221> unsure
 <222> (1)..(480)
 <223> n = a or c or g or t

<400> 556
 atttattgca aactccctaa tatcacatgc tagtgcgctt gnaatttcac tcaggaatgt 60
 tccgggatgg gggccagaag gtagagagca ccatgaaagt acagcctgcg aggccggatt 120
 gctaaggggc agacttcatg ccaatggagg gacaganttc aggaccagtc tggatgggct 180
 aagctgcctt gggcngnaag gagctggatc aggccaggga gcttgagggt ctcctttggc 240
 caaccacccc caggtttcca gtcctcctc ctcactcagg gtcctgcgcg gtgagggagg 300
 tttgggggag gttcgcggct ntacagctgc cagggnntttt ggggcactac canttaagcn 360
 tgaggccccc agtcagtcct tcactnnggg aaagtttcca agganttggg gcttttactn 420
 gcattttttt cagacangtt ccggnntaagg ggttnaagct ttnccttngg ggggttnccc 480

<210> 557
 <211> 392
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R84421

<220>
 <221> unsure
 <222> (1)..(392)
 <223> n = a or c or g or t

<400> 557
 acaaagagaa aatttttattt tcttattcctt gaaatgactg tacgattttt caatgttaaa 60
 gttcactttc aagtatgatc aataacaaga catcaaagt aaaaattatg ctgtattatc 120
 attttctcca ttgcttctta aaccactgaa agtaatttca caattcacca catttaggca 180
 tcttcttttt cactttcttc attttttact tctttaggca acaatggatc aatcttcagt 240
 aataaacctt cacttggtga actacgaagg aaagcacgta ccacaanggg acccaaattc 300
 aggcgggtct gtgcctacaa acttcattaa taactgcttg cggattgggc agctatctgg 360
 gtcacttgac atatccaatg ttggctattt tg 392

<210> 558
 <211> 412
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R85291

<220>
 <221> unsure
 <222> (1)..(412)
 <223> n = a or c or g or t

<400> 558
 ttgntattta cangtattta aatgtgaata ttcactacct atttggtgca ngcctgcant 60
 ttttatactg ggcttgccaa aaaccogaac agctttctac ttgacaatg tatcagaatt 120
 taaatcagca atatgttaat aagccaagca aaggttatat atgcaaataa aactgttgtc 180
 tataacctcc tggttacctg gggcacagca aaagtcatgg ngtagtcgca tgtgaacctg 240

```
tcccttttcat aggctgctca ttgccgggga acatcagga atagccattt ggggaaggggt 300
catcagccct cccancatcc gttttctgtc ttgtcttttc cctatgagga aggggggnaat 360
tccncgggtgg ggccccaatc cccagtgcag gnggctcage cnttggcctt tg 412
```

<210> 559
 <211> 380
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R88209

<220>
 <221> unsure
 <222> (1) .. (380)
 <223> n = a or c or g or t

```
<400> 559
acatcagtc gaaaattcca gaaaatggaa agtactccat catacagcaa agtaaatacaa 60
tggttgtttg aagagcagag agaaaaactt tataaaggct ccaagtaaat acaaagggtga 120
tagattagat aaattcatta tggngactct gatgatgggt tcacgggatt ataataaaaat 180
tcaagactta tcctacagct caaatatgtg tactttattg gatgtcattt atatctttat 240
tttattttta agatggggtc tcaactctatc acccgggctg gactgcagcg ttgcaatcct 300
aggctcactg caacctccgn ctcccgggnt caagcaatcc tcccacatca ctaagggncca 360
gggtacatgc cncctnccg 380
```

<210> 560
 <211> 379
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R89840

<220>
 <221> unsure
 <222> (1) .. (379)
 <223> n = a or c or g or t

```
<400> 560
ttaaatttta ttatagtaac aaagtgacta tttttaataa taaaagcaga gtgcctgtag 60
gaagtggatg gccctatctc aggccaagtc tccttagtgt ttcagacctt ggctgaccag 120
aatagtcttc tagaatgtaa catttatcca ccaggngtca ttatttacca atctgacaag 180
ccactgggct gtctccgngc attcaatggg tggaatcaag gctacagacc agantaggag 240
atgaatgaaa ntagatttag aaaagggcgt tgtggctgga atgcagcttg cagtgtggga 300
gggcagggnt gggagggtta agagggctct ttgaaagncc agtntcactt tcctgatcca 360
agttttctta gctgatact 379
```

<210> 561
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R91484

<220>
 <221> unsure
 <222> (1)..(378)
 <223> n = a or c or g or t

<400> 561
 tcaaatgtca gatttcttta ttaaaatgtg cacattatag ttactttaaa tacaaaatgt 60
 tcactttcct tgcaggtaag aaatttcact gacatttcca tgtcaattag cttcttttta 120
 ataaaaatcc ttccactgaa aataaatang catttaantt actgaactat tatattcatt 180
 agtctcaata cctcttaaaa tacttaaaac ttgngaaaat agactctaaa catngcctaa 240
 nggngggcat ccagctctga ggcaggccac acaagggtgtg tctgaggtat gggccatatg 300
 actccggggg ggccacctcc acggacgggc ccagccccac cgacggntct gctggaaaat 360
 cccggcccct caggcggg 378

<210> 562
 <211> 223
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R93908

<220>
 <221> unsure
 <222> (1)..(223)
 <223> n = a or c or g or t

<400> 562
 catatatnna atantaaaaa tcctgggagg cattgcactg taatagtaag tctgcccac 60
 caggntcatg catgtctttt ctttcattca agtcttattt tatacttttc agtaaatttt 120
 catatagatc ttgtgaatcg aattattttt acatttcaaa ttcaactaac aattattaat 180
 aganaatgaa aacattgatt tttttcaata tttattttgt gtc 223

<210> 563
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. R96924

<220>
 <221> unsure
 <222> (1)..(334)
 <223> n = a or c or g or t

<400> 563
 agtaaacttt attngggaga tgggggtgaat ccatcactgg ttactggaac cctgagtcctg 60
 cattttctcc tcaggaaggc ggtctgaaat ggagtgggct gtgtttggca agggttgtag 120
 tggtttgaa tctctcacct gcttggtcc cgagctgggc ctcaggctgn tctccccaga 180
 gtaaagtccc gggatcattg aggaagcgtt ggctgcgctg ggcattgttag ggcaggctctg 240
 tacggtccag cgctgtcccc tgcagcgtct ctgggcgctg ggggtgcagggt naggcccngg 300
 acgaggaggg aagagcagcc tcgacagaga gtcc 334

<210> 564
 <211> 510

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R98442

<220>

<221> unsure

<222> (1)..(510)

<223> n = a or c or g or t

<400> 564

```
gtactcatta atccccctcct caatTTTTtaA cagaattata aaagcaaagt caaaagggtcc 60
ttcaggatga ctgggaggct tcctaggcta actTTTtgcAt ttgaaaatgg aaaaaataaa 120
ttacttgata tttgtgataa gactaagatt tcttaaaaagt ctgcacatca atatattacc 180
tgggcttagg agggtgaggg cacagtatcc atctgcaccc tctcctcgta ttttttAAAA 240
acaggcaaaa tatgtaagaa aaggctgggtg cacgttggaa gacagagcgt gcctgtctat 300
gccagtgtctg ctgtgccttg cagcctgggn aggatgggag tcggatgctg gggcctcatg 360
nccacttagg gccaataaca tactcaagac tctacagccc tttcaccagc aaagtatgnc 420
ctgaggggaa ccactgggtg ttgggagttg aaggcacaca aagcaggggc taaagggcaa 480
ttggggTttc acggtgcagg cgccttgagg                                     510
```

<210> 565

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. R99092

<220>

<221> unsure

<222> (1)..(386)

<223> n = a or c or g or t

<400> 565

```
tgtagagacg ttttgccctg ttgcccaggc tggtttcgac ctgctgtgct caagggatct 60
gcccaccttg gcctcccaaa gtccataggat tacaggcctg agctactgcg cccaacccat 120
ttattttattn ctgttttagt tgcatttgct ttaggagtct tagccatgaa ttctttgcct 180
aggccaatgt ccagaggagt ttctcctagg ttatatctta gaatttttat ggtttcaggT 240
cttaggttta agtcttttat ccatcttgag tttatttttg tgtaaagtga gagacaggga 300
ttcagtttca ttcttctaca tgttgctatc cagttttccc agcaccattt attaaatagg 360
ggtgtccttg cctcaattta tggttt                                     386
```

<210> 566

<211> 691

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. S45630

<400> 566

```
gacccctcac actcacctag ccaccatgga catcgccatc caccacccct ggatccgccg 60
cccttctttt cctttccact ccccagccg cctcttttgac cagttcttcg gagagcacct 120
gttggagtct gatcttttcc cgacgtctac ttccctgagt cccttctacc ttccggccacc 180
```

```

ctccttcctg cgggcaccca gctggtttga cactggactc tcagagatgc gcctggagaa 240
ggacagggttc tctgtcaacc tggatgtgaa gcacttctcc ccagaggaac tcaaagttaa 300
ggtgttggga gatgtgattg aggtgcatgg aaaacatgaa gagcgccagg atgaacatgg 360
tttcatctcc agggagttcc acaggaaata ccggatccca gctgatgtag accctctcac 420
cattacttca tccctgtcat ctgatggggt cctcactgtg aatggaccaaa ggaaacaggt 480
ctctggccct gagcgcacca tttccatcac ccgtgaagag aagcctgctg tcaccgcagc 540
ccccaagaaa tagatgccct ttcttgaatt gcatttttta aaacaagaaa gtttccccac 600
cagtgaatga aagtcttgtg actagtgtg aagcttatta atgctaaggg caggcccaaa 660
ttatcaagct aataaaatat cattcagcaa c
691

```

<210> 567

<211> 1398

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. S59049

<400> 567

```

tagatggcaa cctccctatc tgcccgcagg tcatagagggc gacacgtagc gtcactctgac 60
cctgaagcaa aggcattctc actccaaagt tagacaaaat gccaggaatg ttcttctctg 120
ctaaccctaaa ggaattgaaa ggaaccactc attcacttct agacgacaaa atgcaaaaaa 180
ggaggccaaa gacttttggg atggatatga aagcatacct gagatctatg atcccatatc 240
tggaatctgg aatgaaatct tccaagtcca aggatgtact ttctgctgct gaagtaatgc 300
aatggtctca atctctggaa aaacttcttg ccaaccaaac tggtcaaaat gtctttggaa 360
gtttcctaaa gtctgaattc agtgaggaga atattgagtt ctggctggct tgtgaagact 420
ataagaaaac agagtctgat cttttgccct gtaaagcaga agagatatat aaagcatttg 480
tgcattcaga tgctgctaaa caaatcaata ttgacttccg cactcgagaa tctacagcca 540
agaagattaa agcaccaacc cccacgtgtt ttgatgaagc acaaaaagtc atatatactc 600
ttatggaaaa ggactcttat cccaggttcc tcaaatcaga tatttactta aatcttctaa 660
atgacctgca ggctaataagc ctaaaagtgc tggtccttgg ctgaagggaa ttaacagata 720
gtatcaaggc acgaaggaat gtgccagtat ggctccctgg gtgaacagct tggccttttt 780
tggtgtctct gacaggccaa gaagaacaaa tgactcagaa tggattaaca tgaaagttaa 840
ccaggcgcag agttgaagaa gcataagcaa gacaaaaaca gagagaccgc agaaggagga 900
agatactgtg gtactgtcat aaaaaacagt ggagctctgt attagaaagc cctcagaac 960
tggaaggcc aggttaactct agttacacag aaactgtgac taaagtctat gaaactgatt 1020
acaacaggct gtaagaatca aagtcaactg acatctatgc tacataattat tatatagttt 1080
gtactgagct attgaagtcc catlaactta aagtatatgt ttccaaattg ccattgctac 1140
tattgtttgt cgggtgtattt ttttttattg tttttgactt tgggaagagat gaactgtgta 1200
tttaacttaa gctattgtct ttaaaaccag ggatcagaat atatttgtaa gttaaatcat 1260
tggtgctaata aataaatgtg gatattgtat taaaatatat agaagcaatt tctgtttaca 1320
tgtccttgct acttttataaa acttgcattt attcctcaga ttttaaaaat aaataaataa 1380
ttcattttaa aaaaaaaaa
1398

```

<210> 568

<211> 1223

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. S81914

<400> 568

```

acactcgctc ggctcaccat gtgtcactct cgcagctgcc acccgacat gaccatcctg 60
caggccccga ccccggtccc ctccaccatc ccgggacccc ggcggggctc cggctcctgag 120
atcttcacct tcgacctctc cccggagccc gcagcggccc ctgccgggag cccagcgggc 180

```

```

tctcgcgggc accgaaagcg cagccgcagg gttctctacc ctcgagtggc ccggcgccag 240
ctgccagtcg aggaaccgaa cccagccaaa aggcttctct ttctgctgct caccatcgtc 300
ttctgccaga tcctgatggc tgaagagggg gtgcgggcgc ccctgcctcc agaggacgcc 360
cctaacgcgc catccctggc gccaccccct gtgtcccccg tcctcgagcc ctttaatctg 420
acttcggagc cctcggacta cgctctggac ctacgactt tcctccagca acacccggcc 480
gccttctaac tgtgactccc cgcactcccc aaaaagaatc cgaaaaacca caaagaaaca 540
ccaggcgtac ctggtgcgcg agagcgtatc cccaactggg acttccgagg caacttgaac 600
tcagaacact acagcggaga cgccaccggt tgcttgaggc gggaccgagg cgcacagaga 660
ccgaggcgca tagagaccga gcacagccca gctgggctag gcccggtagg aaggagagcg 720
tcgttaattt atttcttatt gctcctaatt aatatttata tgtatttatg tacgtcctcc 780
taggtgatga gatgtgtacg taatatttat tttaacttat gcaaggggtg gagatgttcc 840
ccctgctgta aatgcagggtc tcttggtatt tattgagctt tgtgggactg gtggaagcag 900
gacacctgga actgcggcaa agtaggagaa gaaatgggga ggactcgggt gggggaggac 960
gtccccgctg ggatgaagtc tgggtggtagg tcgtaagttt aggaggtgac tgcacctctc 1020
agcattctca actccgtctg tctactgtgt gagacttcgg cggaccatta ggaatgagat 1080
ccgtgagatc cttccatctt cttgaagtcg cctttagggg ggctgcgagg tagaggggtg 1140
ggggttggtg ggctgtcacg gagcgactgt cgagatcgcc tagtatgttc tgtgaacaca 1200
aataaaattg atttactgtc tgc
1223

```

<210> 569

<211> 290

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T03229

<400> 569

```

ggtgatcttt gtggcattct ctgtatttcc tgaatctgaa tgttgtcctg ccttgctaga 60
ttgggggaagt tctcctggat aatatcctgc agagtgtttt ccagctcggg tccattctgc 120
ccatcacttt caggtacacc aatcagacgt agatttggtc ttctctcata gtcccatatt 180
tcttgagggc tttattcggt tcttggtatc ctttttccct ctaaaacttt tccttctcac 240
ttcaatttca atttaatttc aaccttcaaa tcaactgata cccctttctt
290

```

<210> 570

<211> 253

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T03593

<220>

<221> unsure

<222> (1) .. (253)

<223> n = a or c or g or t

<400> 570

```

cgngcaaaag tgtttatatt tctccttcag atatacanto tattggggnt tccgtgccac 60
tgaccaccat gtacaaggaa gggnttcaca ggcaaggggg acaggtgagg gcagcccca 120
cttcactcaa ggaacagggc aagggggccc agtacagaga acagaaatct cttacgacag 180
catcgtgccc tggcaganga ttctgcatan tcacctagaa atttcaattc taactgnntt 240
gatggaataa tag
253

```

<210> 571

<211> 71

<212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T10695

<400> 571
 ttttttttttc agctgggcta cagggtttatt ctggcactgg aggtgaaagg gggctggtgt 60
 ggccagcacc g 71

<210> 572
 <211> 255
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T15409

<220>
 <221> unsure
 <222> (1)..(255)
 <223> n = a or c or g or t

<400> 572
 ttttatttgaa agttgaaaag tgaacagtta aataagtgac accttaaaat tgtgtagcga 60
 aatgacagaa aatatgcata taactactat acaggtgcta tgcagaaacc cctactggga 120
 aatccatttn attngttcga actgcggtt tttnaacgta ttcaaccagc tgaattgaac 180
 gatttcagtg nacacggatt tacttttagcg tattcagcag ctagatttca gcttccacan 240
 ngtgcgtnac tgtgc 255

<210> 573
 <211> 268
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T15423

<220>
 <221> unsure
 <222> (1)..(268)
 <223> n = a or c or g or t

<400> 573
 tttatttcat tatcagtctt acaggttgct gaggttgggc aaagccaggg tagtaactta 60
 aatccaaagc acttttgtgg agggacaacc cgtttagcaa ggccctgtta ctgaacagag 120
 ggcagtgggg ggcaccccag ggaccacagc acacagacta gtgttagaaa ccccttccca 180
 gaagcaaccg gtgggacttg gcccttacca gccaggggtc tactccattg ggtcttgggg 240
 cccaccaacc cctnttagag gnggnccc 268

<210> 574
 <211> 246
 <212> DNA
 <213> Homo sapiens

<220>

<223> Genbank Accession No. T15850

<220>

<221> unsure

<222> (1) .. (246)

<223> n = a or c or g or t

<400> 574

```
aggaggggtg cgtttattag acaaacgctg ggagacaggc ctggtgggga cctggctggg 60
ggatgatgca gcccgcaatg gctgctgctt cgtacttggc ttgccccgga ccacagactc 120
gtaacggtaa cccctaactt ttcaggggccc tggnaaccgc ccctgccagg gtccacacgc 180
agagttatgg cgggnccacc cccacagggtg cagctctatc tcccacctnt tgcacagaga 240
tataag                                           246
```

<210> 575

<211> 311

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T16282

<220>

<221> unsure

<222> (1) .. (311)

<223> n = a or c or g or t

<400> 575

```
aagctcagag tgacttttaa tatgccaatc aatgttaata aaacacaagt caaagacaag 60
tgcaaacatg ttttagacca aaattaatga gaaaacagac aatttttttc aacatctgtt 120
agccagtatt attagtcaaa tggctaatac cagataaaat atattttgtg aaaaacttgg 180
aatgtcagan gtcattctgg catttcaaac agctatgtac agtatcacga agatcggttt 240
atatacacia atattgaaga gaaaaaccgg gcaaaacatt taaaaacaga ctaataatac 300
aatcaagtat a                                           311
```

<210> 576

<211> 250

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T17428

<220>

<221> unsure

<222> (1) .. (250)

<223> n = a or c or g or t

<400> 576

```
gctgtgcagt agtatttatt gttacagtgt taaaattcac tctcggggaa gcgatttggg 60
gccacggccc tagaaactgc atctttgttc agagccaacc catttcctct gcagccacaa 120
aatgcctttg tgtntcaggg ctcgggagat tctcctcgnt ggccagccat tggcaagaat 180
gccagactca gaggttgcca ttgccacag gctttntnct cctttccttt cacagcagga 240
agagccctcc                                           250
```

<210> 577

<211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T23468

<400> 577
 tttgccaaatt atctccatgt ttattttaaat atttggctct aaaggaagca atcattcctt 60
 tatacttctt taaatttagt attgacattt ttattttggg aaaggaggtc tttttttttt 120
 ttaacatgga tacaggaaaa gaaaactctc caataaaaaat attgtctaaa aagtttggtt 180
 tggctgcatg atttactaaa tatgtacaat ttcaattcac agcgaaggta acaaagattt 240
 aaacagccaa catcacaaat gtctcaagtt ctaaaaaaaaa atcactgtgc acagtttaac 300
 aatttaatt 309

<210> 578
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T23490

<220>
 <221> unsure
 <222> (1)..(299)
 <223> n = a or c or g or t

<400> 578
 tttccagggt gacaggtttt attccacccc cttccatccc catggccacc ccaggcagga 60
 ggagacagggt gtgctggagt ctggctcactt tggggcccgg cgtgggcaga gcccactggg 120
 tttacattct ctgtgggcag gtgtggacac cagagggctg gggcaggagg agcgtgggag 180
 cgagcggnccg acccccgtct ctggcccggc ccctgggtaa acgccgactc agatgcctga 240
 aacagacctg ggccgagcaa ggaagggtga tggattttcc acccagacag aaattcaaa 299

<210> 579
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T23622

<400> 579
 tttatagagg agactgaaaa agataattta ttccatcaga ggcatacaca ttacagatta 60
 cagacatttg caagtaaata atatgcaggg ttagagcgct gcgttttaac atttaacatt 120
 catgagtaaa cagagatggc cgggtgggtaa atatcttgcc aagggtgggtc cttgtattaa 180
 gccttttgag tctaagatga caaatcccta ggggtcaggt ggtttttccc gcacgaactc 240
 ttgtcaatga gaaatccctc agcccccttt gtcttgggtc tcacagctcc agaaggtga 299

<210> 580
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>

<223> Genbank Accession No. T23935

<400> 580

```

tttatgtata aacaggtacc agttttgatt ttattttaatc atttcataca ttaacataca 60
tgacacatca aaatgagaaa tgcacagttt aaccgttcaa cagctggcct tacttcaaaa 120
gaacactata ttcatattaa acattttacag tctttccatc taactttaca catgtcctaa 180
atcatttttcc agcactttctc acatagaagt ctagttttgc tctttaaaat caccatctgt 240
atcaccccta gtagacgcga gggtttcccc aattacatgc tgaagagagc cagccaccac 300
cccacctaa                                     309

```

<210> 581

<211> 128

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T25732

<220>

<221> unsure

<222> (1)..(128)

<223> n = a or c or g or t

<400> 581

```

ctggcttttc ctttcttctt atttttattg ctcccaaagc tccactcatc gtcactgtca 60
gacgtctccg agtctgacga ggctgcaggc tgactcacag gcnctcctt cnnctcagag 120
tcactgcg                                     128

```

<210> 582

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T32113

<220>

<221> unsure

<222> (1)..(207)

<223> n = a or c or g or t

<400> 582

```

ctggacagcg ggcagcacca ggcggeggac agtgtcttcc ttctgcagga gcagcgcgng 60
gctctccacc acctcctctc catccttggc ccagcgcacc tntgcccagg gccggcatag 120
ctcacaggctc agcaccacac gctccaggcg cacggctgcc acatacacct tgccgctggg 180
atacacgatc cacgaggaga cgtctgt                                     207

```

<210> 583

<211> 308

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T33263

<220>

<221> unsure
 <222> (1)..(308)
 <223> n = a or c or g or t

<400> 583
 gttccttttaa aggtttatatt ctggcaaata aaaaaaata acttatgtgg ttagataaat 60
 taatgtatgt nattagatac gacacagggc agagctgaac gttcctgttt tcttctggnt 120
 cttgaagggtt ggtgagagggc cgctgaatga gacccagcct cgtgttttgt gggatgaaga 180
 gatgcagaca aagtgactca ggtacactga tgctccctgg agggctggga ggtgggctca 240
 gaggaagagg ccgaatccaa acctttttta ttgaaaagaa atagctcttg tttgtagcat 300
 ttaaaaaga 308

<210> 584
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T40895

<400> 584
 taatggtagc tatcaattta ttaactgggtt actgcggcaa tatatataat tataaaatca 60
 ccatcaatcc tttcattcat acgttaacac atatcactgg tttaattcat tgaaggcaaa 120
 tacaagtttt tcccttactt tccctccaag attccactta ggctgggttac cccaaacgta 180
 atggagaaac attaaatgtc actttttaa cactttttaa ccagtcttta attttcaatt 240
 caggtgtgag gcacatatat acacacaaac a 271

<210> 585
 <211> 343
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T40995

<400> 585
 taatgggttaa ggaggaaggt ttattggctt caattcccca gttgatgttc aacactttat 60
 ttagttctca tttggatttt aaacatttgc ttgacaaata atttcccatc aatttccatt 120
 tctttggaaa gctcccacgt gtaatttatt tttaacatct ctgaagagca gaattaatga 180
 tatttcctag ctgttgctcc agatcatgta gggtagagga ggctgaaaac tgctacaagg 240
 gaaggcatct gtattgtttc aaaacgtcag gacggtacgg gatactcttt ccagagcgac 300
 gaggggtcaaa tcccttcatt tatttttttc aaaagggtaa aac 343

<210> 586
 <211> 351
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T49061

<220>
 <221> unsure
 <222> (1)..(351)
 <223> n = a or c or g or t

<400> 586
 ggaccaaaaga acttttatatt tatttttaaata atcaaagtaa cacaaagaac tagttcaata 60
 tacagtacac ttcctactct tcacagagaa ctgaaatctt ctataaagac atttatactt 120
 aggaaacatc agacaaccaa agtatgtata aaactcacaa gatatttttac acacagttca 180
 caataattaa ttctgatatt ttaggntttt tctgtcattg ctttttaaagc atccttaatt 240
 taaaaacaaa aattattatt tgaggactgg aaaacaggtg gcaaaggcat ttctactttt 300
 aattatacac tggtaaattcc ccccttaatc caaacattt tacttncaca t 351

<210> 587
 <211> 423
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T49602

<220>
 <221> unsure
 <222> (1)..(423)
 <223> n = a or c or g or t

<400> 587
 tgaatattca agaaagggtga agttttaattt gcatataggc ataacctaca cctcacttgg 60
 caagtgttag gccacagcac aaaccctct gtccaatcac aaatgtccac aaatttgcaa 120
 agtaactgga cacgaacgat atgcttctca aactcacaca catattcgtc catcacacac 180
 aactcaaat gataaagaan tacattgaaa tcctctacaa aagagatctg aggacagtan 240
 tcagatgacc tcatgtgcgg acagcctntt gcagtttaca gtctaattcca tttggtcctc 300
 acantagccc tgtgaggata agcagcacag ggattactnt tcacaccgtt ttgcaggatg 360
 agggaaactg aggctcaggg gatgtgtaaa caccagccta aggttttcca gttgggagac 420
 tgg 423

<210> 588
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T53590

<220>
 <221> unsure
 <222> (1)..(309)
 <223> n = a or c or g or t

<400> 588
 ttnggtatgt ggttcagctn tttattntct ccatgggggtg ggtgaagagg agtggcccag 60
 ctgagctgag gaagggtgacc actgagaacc cattcaacct gctgagcagc ttgggcagaa 120
 aggagcagga cttgggacag acgactgaag atgcagagac cccatggggc ccacccctgg 180
 gccttcctcc catntggctg caggcatcct ntntnatcan tgctggggtt cttcctgggt 240
 aaagggccan aaggtnaagg agatgggntt ttcangcatc agaagtaggt tnaatttgggt 300
 gccacatc 309

<210> 589
 <211> 470
 <212> DNA
 <213> Homo sapiens

<220>

<223> Genbank Accession No. T56281

<220>

<221> unsure

<222> (1) .. (470)

<223> n = a or c or g or t

<400> 589

```
caggtnatn ttntttaatt atcactcaca tatttcacag gaaaaggant ntagcaaata 60
gggtcaagggtg gtntaaaaaa aaaatccagg tttntacatg tctctctgtt tacatctggg 120
agaaagggttn tcctggcatc agtcgcagca gctgcacttc tctgacgccc ctttgcaaac 180
acagccctgg gcacacttgc tacagcccac ggggaggcag gagcagcagc tnttnttgca 240
ggaggggtgca tttgcncctc ttgcacttgc aggggaaccag cgcaggggtgc agggagacac 300
cagcggggcgc agggagcagt tgggggggncc cattgcaagc cggagggaga gactgggact 360
tttcccaagg agagaagcga aggaagccag tggggggcag ctctgtgccg anttccttca 420
gccccggggg gntcccccta gttctaggag cgggccccac cgggtgggat 470
```

<210> 590

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T62857

<220>

<221> unsure

<222> (1) .. (439)

<223> n = a or c or g or t

<400> 590

```
caatctnaaa aaaatatattt cattatgttt attataaaaa tataaatggt tccactacaa 60
atcattttac attagtaaga ggccatctac attgtacaac ataaactgag taatattttg 120
aaaagacaag tttaaagtaa acacatatgt ccaatcatat cacatttata catggcttga 180
ttgatattta gcacagcata aactgagtga gttaccagaa ataaataata tatgtaaatc 240
aaatttaaga tacaaaacag ntcatatggg tacataacat catgtaggga gttgtggcct 300
ttatgtttac tgaaagtcaa tgcagttccc tgtaccaaag ggatggccgt aggcattcta 360
ggtaccctct nctccctggg ttaggggaatc cgtacactta tggtttacca tatgggtccg 420
gggtagggan ttgtggtaa 439
```

<210> 591

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T62873

<220>

<221> unsure

<222> (1) .. (450)

<223> n = a or c or g or t

<400> 591

```

tttttnacga gacagagctc agttctgtcg cccagactgg aatgcagtgg tatgatcttg 60
gctcactgca gcctcgactt ctcggttaca agcaattctc ccacctcagc ccctggngta 120
gctgggacta caggagtata ccaccatgcc caactcgttt ttatatTTTT atagaaatgg 180
tntctcacca tattaccag gctggtctca aactcctggg ctcaagcgat ccactctgcct 240
gccttgggtct cccaaagtgc tgggnttaca ggtgtgatcc tctgagtctg gccaatTTTT 300
atttaaagat atTTTTTaaa ttggactgga cgcggtggct catgcctggg aattaatccc 360
agcaactttg gggaggccaa ggcgggatgg ctttagacca gcctggggta acatggggcaa 420
gaccccntct ctaaaaaacc aaaanaaggg                                450

```

<210> 592

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T62918

<220>

<221> unsure

<222> (1)..(237)

<223> n = a or c or g or t

<400> 592

```

TTTTTTtaag aatcttctgg gcctctttat taagagccct ctgccttncc agggggaggga 60
agcaaactct tcagggcccc cagagttcct gcaccccata tcatgggtga gnctaccagc 120
cacagagcca cccgtcaccg tggagaggct taagntgcac tcagagctcc ccccgggcat 180
gccgaatgta gtgttgatgc agccctgctt cctgagcaaa gtcttgaccg cactctg 237

```

<210> 593

<211> 301

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T64211

<220>

<221> unsure

<222> (1)..(301)

<223> n = a or c or g or t

<400> 593

```

TTTTTTnntt tgtggatttt ccttttaatg caaaatgttg caatacaaaa caatgtggag 60
aaagcctggt cctcaggcac tgaaggagg agtgaggaag agaggacaga gctggacgtc 120
tcctcctatt tctccctccc caagtcactc tgaggggag aacactgctg cctgctccct 180
gggcctgccg catacaaggt tagagccctg ggtctggggc atccttagcc tgaaatttgt 240
tgacatgggg caggagagca ggagggaaca ttgagggttt tgactcttcg ggctctaaaa 300
g                                                                301

```

<210> 594

<211> 290

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T64223

<220>

<221> unsure

<222> (1)..(290)

<223> n = a or c or g or t

<400> 594

```

gaatttnana gcattaagtg catttttattt tattgtatta gcacataaat tgatgaagcc 60
acatgggtgaa aatctgtgag aaactgaagg ttttcatttg ttttctgtgc cccactgtat 120
atcacctttc aaaataatgc tttctgctgg gtccaaactt cacttgaggc aaagaaaggt 180
agttaaaagg tttcacttaa agctacttcg ttatgggtgc tactgaaagt aaggtaaaag 240
caaacagcag taacatgggg actttaantg aggcaagaga agggattcag 290

```

<210> 595

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T67053

<220>

<221> unsure

<222> (1)..(445)

<223> n = a or c or g or t

<400> 595

```

ttctggttgt caatgaggat atttattggg gtttcatgag tgcagggaga agggctggat 60
gacttgggat ggggagagag acccctcccc tgggatccct gcagctccag ggtncogtgg 120
gtnggggttag agttgggaac ctatgaacat tctntagggg ccactntctt ctccacgggtg 180
ctcccttcat gcgtgacctg gcanctntag cttctgtggg acttccactg ctcgggcgctc 240
aggctcaggt agctgctggc cgcgacttn ttgttgctct gtttggaggg tttggtggtc 300
tccactcccn ccttnacggg gctgccatct gccttccagg gcactntcac agctcccggg 360
tagaagtcac tgatcagaca cactagtgtg gccttggttg cttggagctc ctgagaggan 420
ggcggaaca gagttacagt gggga 445

```

<210> 596

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T67105

<220>

<221> unsure

<222> (1)..(444)

<223> n = a or c or g or t

<400> 596

```

ttancaaaca tttattgatt gcacaatgaa acaatctctc ctttcagata tatacatcag 60
tttactaaaa gagtagatac aaaggtcagg aagtaattac aatgcaatgt gataagttta 120
ataatatagg tttgacagca tacagnggag ggggtgattg ggtttnaggt gatggtggga 180
tattggccag gtaatatctc atggaccaag tgatgacaac atagggtttc acagatggat 240
aagagtcttc caagntacc agggggaaat atacatgtgt ggggtgcaaa acagagtatg 300
gcatttctctg anagtcagan ntnatacaa gagtataaag tncaagagaa tgggataagt 360

```

agctagggag gtaaggccag acaggntagg cnagtcctag gggcctttca ggccatgggn 420
agganaacgt ggggcttcac ccta 444

<210> 597
<211> 244
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. T68873

<220>
<221> unsure
<222> (1)..(244)
<223> n = a or c or g or t

<400> 597
nntttttttt ttttcaagtc aaaactgttt tattgtcngt ttacatatatt aatagaaaaa 60
ggaatgtatgc aaatgctcag ggttgatga aaaaaaaatc caggtttgctg caggttgctc 120
tgtttacatc tgggagcagg gctgtcccca catcaggcac agcagctgca cttctccgac 180
gcccctttgc agacgcagcc ctgggacact tggcacagcc atggnagacc aggagcagca 240
gctc 244

<210> 598
<211> 346
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. T73433

<220>
<221> unsure
<222> (1)..(346)
<223> n = a or c or g or t

<400> 598
gggagaaata accagctatt gttccgcatt caaacagaaa ttcagggtgct tgcattctttc 60
acgtattgtt caaaaatcac aagcatctgt ggaaaaaac taaggattta cagacactac 120
acggagggtca tgttcttaca ttcaagacac taaatacaaaa ccgangcant gcaaaattgt 180
atactttaat tttaaaaccc antttttgtt ctcaacttga aaagggnaac acttttttgt 240
ttcacaaaca agctgggtcg ggttgggant tctttttggg aacagtaggt cccgcgctaa 300
aactgggtt cttgcctccc caccctcntt ctctaaaatn aaccba 346

<210> 599
<211> 475
<212> DNA
<213> Homo sapiens

<220>
<223> Genbank Accession No. T78398

<220>
<221> unsure
<222> (1)..(475)
<223> n = a or c or g or t

```

<400> 599
agtattgggt gtagttttat ctgtcctttt tttattcctt taatttataaa aaaaaaaacc 60
ttttaaactag gcaaaattac tttcctttta acaaaaaacca cattttcatg ctttctgata 120
actttttctta aacaaaaaac atgtcctact tcccttatac actttcgatg gagaattttt 180
tctcttgat ttagtaattt caattatata cattttattac aatgttaact tttaggtaac 240
tctttattttt aggtgaaaaa ctttgggagg gtaggccgtt ttaattatgg taccaggatg 300
gcaaagggtcc aggaacaagg ggaccaagcg ggggaggctg ggcctagggt cataggcctt 360
aaaaacttta aatcttaagg gataaagggg nggggggnac ggtggggcct cacggnctgg 420
ttaatcccgg tgggttgggg gaggggagag tgggggtggg gntcacnggg ggtca 475

```

```

<210> 600
<211> 445
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. T79768

```

```

<220>
<221> unsure
<222> (1)..(445)
<223> n = a or c or g or t

```

```

<400> 600
ttttaagaca actacaaact ttcaatattg gaggtagctg cagagatcat ggtaactgac 60
tttttcacag atgaggaatt taaggccag aggaaggtaa tatcagaatt agtgacctcc 120
gcaccagca cacacacagg acaggggaaa ggggtgggaga gatgcatgca ctgggaccct 180
gggtagatt caagataccc ttgctggggg aggggtggggc tggccgttag ttctaactca 240
gtcttctcag tgccacctcc agcccctgtg ggtctttatg ggggccaac tctttatcca 300
tctttccttg ggggtgatgg agggcatggt cgccagcatt aaggatcttc ccagncacag 360
gatggcacgg ccccgggcct tctttgatat tattaggtgg gcttctgggg gntttcttcc 420
ctgccgncct tccacaactc agggc 445

```

```

<210> 601
<211> 408
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. T85532

```

```

<220>
<221> unsure
<222> (1)..(408)
<223> n = a or c or g or t

```

```

<400> 601
atcgcttgag gccacgagtt caagatgagg ttggcaacat agtaagacct catcactaca 60
attttttttt ttttaaatta gtgaagtgtg gtactgcaca cccgaagtcc cagctacttg 120
ggaggctgag gcaggaggat tgcttaagcc cagaaatttg aggctgcagt gagccatgat 180
tgcaccacta tgctccagag tctaggcaac agagtgcagac cttatctctt taaaacaaac 240
aagaatgaag ttaggtatct gtttatttgt ttgagccatt tgtatttcct tttttgtagg 300
actgtcctgt ttnaaacgtt aaaatcactg ctgtnnggtt tngattttta catctcagct 360
gggatgggca ccaattaaat tatttnaggc cctggtttat tgnaaaat 408

```

<210> 602
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T86148

<220>
 <221> unsure
 <222> (1)..(459)
 <223> n = a or c or g or t

<400> 602
 attttttatat gaagggttttc tgggtgaaatc tttttaagcag ggaggaaaat ccaataaaatt 60
 ttttttaaaaa ggttttagcta ttccccaatg ctattttaata caattgaggt taggacgtta 120
 agtcttatca gactgtgtac tggagccccg tgtcatcagc aaaagccgtg tgagtcaaca 180
 ggtgtgaaga ctcaagatgc gcacacagac gctgtccgtg gttttatggg gaatgatgag 240
 ggctgggtcag ttctcctcat gacaaaagtc aaaccgactt ccctgtgttg cgtgtgaagc 300
 ttgttagtggt acagaggagg aaacgcaggg ttctgccctg gggagnatga cagnccacag 360
 cgcttgggggt nccgtcaggg ctttcgtgtn cagtttagcgt ttcacaaact ngaggaggag 420
 tattaanaana gcccaaacc caaagtttct ttttttcaa 459

<210> 603
 <211> 357
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T89160

<220>
 <221> unsure
 <222> (1)..(357)
 <223> n = a or c or g or t

<400> 603
 atgctgctat gacagaatac ccaagactga gtaatttata aagaaaagta atttattttct 60
 acagtgccag ggtctgggaa ggtgctggta tctggtgagg gctttcttgc tgcattcattc 120
 catggcagaa agtgagaggg tgagagaggg acaaggagg ggaactgaac tcattccttt 180
 atcagtaacc cactcctgca ataactaatc cactcccaca ataacaacat taatctattc 240
 atgagggcag agctntcatg acctagtcac ttcttaaagg ttctacctta actccattgc 300
 tttgggggat taaatttcaa catattaaac ccttggggagg gacacattcc aaaccac 357

<210> 604
 <211> 494
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T89703

<220>
 <221> unsure
 <222> (1)..(494)
 <223> n = a or c or g or t

<400> 604
 gtagaaaaca aaaatggaac atttattngc aactcaaata ctacgcatat acagtaagaa 60
 nttaaataata aacacagcaa gttccacccc agtcctatatt gtccaaggct gcatgggtcaa 120
 atggaatctt gaagagaaca cctgggnaac agagcanctn tcagcgacgt ctccgggtctg 180
 gactttctgct gcgtcttcgg ccacctctcc ncttgccctt tgggtggaccc cgaacaaaac 240
 accagtcaac ggtgatgggc tgtcccatca aatcctgggc cattgagtcc ctccatagca 300
 gcctggggct tccttgatg tttcatattc agctaggagt ataccctgt cagatatcct 360
 gttcgccctgt cgagggtgag gatgaatgtt tttaatttcc ccatattctg cggaatttgt 420
 cgtgtatgtt ttctgcgga ggcttcctca tggacttcca gttacaaaga gantccagnc 480
 ttcagcagag cgtt 494

<210> 605
 <211> 391
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T90190

<220>
 <221> unsure
 <222> (1)..(391)
 <223> n = a or c or g or t

<400> 605
 tantnntcca gctcttttat tgagatcagt ggtggctctg aaaagcgtnt ttnggggtttt 60
 agaagtaggc gttcgctaatt ttcttcttgg gcgcccgttc ttaggcttga caaccttggg 120
 cttagcggcc ttggnttcac agccttagca gcacttttgg cagctttctt gggcttcgca 180
 accttggcct tctttgggct cttagcactt tcttggttac agtggccgcg gcggtntct 240
 tcgctttctt cggngttttc tttagcgtct tcttcggagt tgcgcccga gccgcccttc 300
 ttgggcttct tggctncccc aactggcttc ttaggttttg gtccgcccgc cttttnaacc 360
 ntggggcttg gncttcccc gagcttgct t 391

<210> 606
 <211> 483
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. T90619

<220>
 <221> unsure
 <222> (1)..(483)
 <223> n = a or c or g or t

<400> 606
 gannntnttg ggctcggcgt ggtgggtgaag ctgtagcctc gctcagttag gatctnecatg 60
 aggtagtcgg tcaggctccc gccagccagg nccagacgca ggatggcgtg ggggagggcg 120
 tcggtacgaa tgggcaccgt gtgggtgacc ccgtctccag agtccatgac aatgccagt 180
 gtgcgcccag aggtangagg gacagcacgg cctggatggc acgtacatgg ccgggggtgtt 240
 gaaggtctca aacataatct gagtcactct ctctctgttg gccttggggg tcagggggggc 300
 ctcggtcagc agcactgggt cttcctccgg ggccacgcgc anttcgtttg tagaagggtg 360
 nggtgccaga tctttctcca tgtccgtccc agtttgggtga cgatgccatg cttcaatggg 420
 gtantttcag ggtcaggatg ccangtttgc tcttgggcct tcgttcgcca cgtaggggaat 480

tct

483

<210> 607

<211> 233

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T90889

<220>

<221> unsure

<222> (1)..(224)

<223> n = a or c or g or t

<400> 607

```

natgaacagt atataatcta atctcttttaa ttttatgtac atgaatataa tgtatgtcaa 60
ctttgtacat gagatacata tagtatTTTaa acatttttact caacaaacaa gaattttacaa 120
tagcaatata actgactaga gggctatcaa cttaataata cttagattag atctgtactt 180
taataggaaa agaatttaaat agttttacaat catagaaaca ctgacattta aaa      233

```

<210> 608

<211> 305

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T94447

<220>

<221> unsure

<222> (1)..(305)

<223> n = a or c or g or t

<400> 608

```

ttaattatng atattccccc tcaccgccct cagggancgg gagaagtcac acgaccatag 60
ggagcttgga cttgggtggc gtcacgggtg tggcagacga gggcttttcc aggaacccct 120
tgctagaatc agccctcata caagtgtgct cagagatccc aggagcgatg gcatcctccc 180
gaagtcaacta cccccatatg tctccttggg cttcttcccc ctctctttct ggaacctgac 240
caggcagaac gcagcaactg ncagcaacag cacgcccagg gagcacccca atcagagntc 300
cggcc                                           305

```

<210> 609

<211> 302

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T95005

<400> 609

```

ctttattgaa aacattgagt gcagaaataa accctgctca tgaatgggaa aattcaattt 60
tacacaggtg ctgattttat ccagactgat ctatagattc agctgggttc cattctacat 120
ctcaaggggt ttttgggggg aatttgacaa gctgattctc aaggttacat ggaagagcaa 180
gggccgagac tagagtttag gagatgattc ccaaaggcac aggggcagaa aaatgaccag 240
tggaaccaca tagaaaaatc aattattgta ttttcaatgg atcactaggc agcagggaaa 300

```

ag

302

<210> 610

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T96171

<220>

<221> unsure

<222> (1) .. (352)

<223> n = a or c or g or t

<400> 610

```

tgccatgttg gcaggctagt ctggaactcc tagcctcaag tgatccacct accttggcctt 60
cccaaagtcc tgggattata ggcattgagca ctgtgcccag cccatagatg gcttttatta 120
ccttaaggta tgtcatgagt aaccttttaa ttctccataa aattaattat tgtgtttttt 180
gtttgcttgg ttttctatga cccatcaca aattcaactc caaactctgc accaattttt 240
tttaaaacttt actcaagaat ttagggccac ataaacattc caacaaattt gtcttcgtag 300
ggnaaatctt ttccagagtt tttccccact atggcctaata gcgcagnggt ca 352

```

<210> 611

<211> 358

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T97243

<220>

<221> unsure

<222> (1) .. (358)

<223> n = a or c or g or t

<400> 611

```

nngttatnaa gttaaattctc tttaatatcc caatacaaaag tactgatgca aaaagacaat 60
gagaaaaaccc aggaagtttg ggggtggggg gtggggagag gttttataaa taaaaaaccc 120
cgagcagctt ttcagaggca gaggagctaa gagaagcagc agtccaaagt gaggaaggga 180
gtgtgtggct cctgggacct gccccttgct ccctcactca cagctgctcg taaacacccc 240
tttcaaaagg ggctgcaccc tttggatatc tgcttctttc tcttggtccc tggggacggc 300
aactagctct ggcttcaatc ccctacaaaa attcctgaga tcttcggggg accccagc 358

```

<210> 612

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. T98019

<220>

<221> unsure

<222> (1) .. (348)

<223> n = a or c or g or t

```

<400> 612
ataaaatagg gctggccana gagcactcac cgtctccctt ttgagttttt cccgcttgng 60
tccaattcca cgagcagccg agctcgctcc aagtcatgcc ggagccgctg ccaggacttg 120
agctgttctt taagggccca gttcttatcc tcagaatctc tctgtagagg caaaacgaag 180
atcagaggat gattagaaag ccagaggaaa ggtcaacagg gagaagagag cccagggaaa 240
ctcagggtcaa gccaaaagag ggagcacagt aattttattg gtagttgcct caatctgtgt 300
tttccccaag gccttgggaa gaattaaatt cttttggtat tgtntttt 348

```

```

<210> 613
<211> 307
<212> DNA
<213> Homo sapiens

```

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<220>
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<223> Genbank Accession No. U03688

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<211> 952

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U08021

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<213> Homo sapiens

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<210> 629

<211> 2344

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U41518

<400> 629

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<210> 630

<211> 1303

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U41804

<400> 630

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<210> 631

<211> 1443

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U45955

<400> 631

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<211> 554

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U52969

<400> 632

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<210> 633

<211> 1974

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U53225

<220>

<221> unsure

<222> (1)..(1974)

<223> n = a or c or g or t

<400> 633

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<211> 3025

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U53445

<400> 634

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<211> 2093

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U57316

<400> 635

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<210> 636

<211> 6981

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U60975

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U72649

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<211> 1366

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U75272

<400> 641

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U78294

<400> 642

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<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U85625

<400> 643

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<211> 3452

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U90552

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. U91903

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gaaatgaatt ataactagac atctgctgtt atcaccatag ttttggttaa tttgcttctt 1860
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```

<210> 646

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. U96094

<400> 646

```

agacagcctg ggagggagaa ggagtgtggag ctcaagttgg agacagcgag gagaaacctg 60
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gtgtgccctc agaaatctgc ctgcagttct caccaagccg ctgtgaaaat ggggataaac 180
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ttaaactgga ttcatgatga tgtaggattg ttacaagccc ctgatctgtc tcaccacaca 600
tcccttcaac ccacacggtc tgcaaccaa ctctaattca acctgccaga aggaatgtta 660
gaggaagtct ttgtcagccc ttatagctat catgtgaata aagttaagtc aacttc 716

```

<210> 647

<211> 159

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. V00563

<400> 647

ccggtaaacc caccctgtac aacgtgtccc tggatcatgtc cgacacagct ggcacctgct 60
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 ctaaccgtgc aacgggtgag atgtgactca taatagata 159

<210> 648

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. V00594

<400> 648

agtcccagcg aacccgcgtg caacctgtcc cgactctagc cgcctcttca gcacgccatg 60
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 aaagagtgc aatgcacttc gtgcaagaaa agctgctgct cctgctgccc tgtgggctgt 180
 gccaaagtgt cccaaggctg catctgcaaa ggggcgtcgg acaagtgcag ctgctgcgcc 240
 tgatgtctgg acagccccgc tcccagatgt aaagaacgcg acttccacaa acctggattt 300
 tttatgtaca accctgaccg tgaccgtttg ctatattcct ttttctatga aataatgtga 360
 atgataataa aa 372

<210> 649

<211> 3565

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. V01512

<400> 649

gcagccggggc ggccgcagaa gcgcccaggc ccgcgcgcga cccctctggc gccaccgtgg 60
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 cgccctgtac tccaaccgca tctgcagcga gcaactgaga agccaagact gagccggcgg 180
 ccgcggcgca gcgaacgagc agtgaccgtg ctccctaccca gctctgcttc acagcgccca 240
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```

aactctagcg tactcttcct gggaatgtgg gggctgggtg ggaagcagcc cgggagatgc 1500
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ttgtttgctt attgttccaa gacattgtca ataaaagcat ttaagttgaa tgcgaccaac 3540
cttgtgctct tttcattctg gaagt 3565

```

<210> 650

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W02204

<220>

<221> unsure

<222> (1)..(448)

<223> n = a or c or g or t

<400> 650

```

ttaaagtaaa ataccattgg gattcacagt ttattgaaat ttaataaaaa ttatttccaa 60
agaatgagaa tcctggggta gcgaggcaat taattaagca attcatctta aaagatggaa 120
tacttggaa accttagcca tcattcaatg ccaaaatgtt tgggtttttt tcatatcaca 180
tccgtcctat cttttcatct tcagtgaatc attcctcatg tttgtaatta aagccatatt 240
taccatcata atctgcagtc acccgagctc attttgctct gaagccagt atattaagct 300

```

```

gttctatttc taacgtgtcc cttaacttga ttctaagtaa aagcagcaag cagtgggtat 360
ttaatatata aactcatcaa attccacata anacatttaa ccacagnntt aaaaactcca 420
gtggccttta cactagctac cntggggag                                448

```

```

<210> 651
<211> 378
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. W20486

```

```

<220>
<221> unsure
<222> (1)..(378)
<223> n = a or c or g or t

```

```

<400> 651
tcaagcaaag ggatgatttt aatgaggggt gagaagcact ccgcagtgcg gcaagcggcg 60
ggctnggntc ggggccccagc accggtggga gcggggcttc tctggcctcg cgcgcggggg 120
acnggccctt tcccctccgg ggaacgcgca ggaggcaccg cggccccngg gttggaacaa 180
acgcgtttac tgcaggcaag gcggcgggcn cggggcggct tcaccaggcg aagaggggct 240
tgcgctctcc ttggagaagc tccgcacagg cagttgaagc agcagcagca agtcgcccag 300
gaacttgggg ggcaccacgt cgatgaccag cttgcgcacg cggcccgggc ttgctgtgca 360
aggggggttg cgcgcagg                                378

```

```

<210> 652
<211> 687
<212> DNA
<213> Homo sapiens

```

```

<220>
<223> Genbank Accession No. W28214

```

```

<220>
<221> unsure
<222> (1)..(687)
<223> n = a or c or g or t

```

```

<400> 652
ttttcangag ctggcccttt caactcagtt taggggcgca gccagctcnc ttcccaatag 60
ggctctttct gctttccctc tccttgcccc tagatttgta atccatgaaa aagcacaagg 120
tcctgggtcc ttgcggtcac attctgggtc tctgtgtttg gtggactctg ctctcactgt 180
tcaccagca ctagcagtac cagatgggtc tgtggagtcc tggggaatgg agagagcaca 240
gtctgactcc ctgccaagta gccaggagtt gacttgccca tgggtccgctg gctttcccac 300
cacttcctac aggatgggat ctaagagact caagagctgg gtttctttca gnactctgta 360
ctgtcccaaa tagnaaacaa ntcaacttngt ggccagattt ctgaatggaa atgagaaaatt 420
gaattcagct tgggacttaa ccaggctgac tngntagggg ggnnnnnncan nnnnnnnntn 480
gntcaannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnn                                687

```

```

<210> 653
<211> 870
<212> DNA

```

<213> Homo sapiens

<220>

<223> Genbank Accession No. W28548

<220>

<221> unsure

<222> (1)..(870)

<223> n = a or c or g or t

<400> 653

```
tctcacacat tcacgcatcc agtcatccac tcagaggcca accagtcaca cattcactca 60
ctcacaaaaa cacagggttg gatgaccatc atgtgccagc ggcatagggt ggggataacc 120
ctgagttcct ggtgcagaaa ataagattct cagtttttga ccttggttg agaaggacct 180
atgaaatcaa gatagacctg gagaatcctc cctgtcccca cccactcagg cacactcagc 240
tcaaccaaga gggaggccca aaccccagtg aagcccaagg ggcagagcca agctgtggat 300
atgtcagagt ttcttgggca tcttctctgc tgctgcctc tttccaatct tggttcagat 360
caggaagca ggaagtatgg gaagatccct gcatggcccc ttgagggcct cctaattggga 420
cggaattggg gaggttctta tattttcatg aaatatccta tttngggctc ctngtggttg 480
tggaacttga gtgattctgn agggcaggag cctccagtga ngagttggna gggatcttgg 540
aaaactggnt ttnattttat ttgggtgggt cggaattcag ttgggcttaa ccaggntgac 600
ttgcaaaggg gggnnnnncn nnnnnnnnnn ncnnnnnnnn nnnnnnnnnn nnnnnnnnnn 660
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 840
nnnnnnnnnn nnnnnnnnnn nnnnnnnccc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 870
```

<210> 654

<211> 296

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W31470

<220>

<221> unsure

<222> (1)..(296)

<223> n = a or c or g or t

<400> 654

```
cgggcgcaga gggcgtttat tnggacctgt ccttcccagc cgctgcttgt ccagggttcag 60
cgctctccgc ggggtgaggca aggaanncgn ngagacgcnc gagccggtca ccacaaggtc 120
cgcttgacc ccggccgtca cggacgtacc tactggatgc agatgggtcca gggatctggg 180
ggctctggga gagggtgtg tggactgcgg gccagctgg acaaaggcag gggcttcctc 240
agaagctctg ctgggtcacgc aggcgtccgg cccacggctt tcaacagccc tgcaag 296
```

<210> 655

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W33172

<220>

<221> unsure

<222> (1)..(353)

<223> n = a or c or g or t

<400> 655

```

ttttttttaga ttggtagagg tggtttatgt gccccatagc caagagaggt gtgcaccaag 60
gaggatatca tcaaactctga caatctggaa agcctttgaa actgttcttt tcctaagcac 120
agtattcagc tgtgtcctct tgaaccata tctatcaggt caacagcttt agcccattcc 180
acatgatatt ggctgtgggt ttgtcatata tagctcttat tattttgaga aaccgttcta 240
tcaataccta gtttattgag agtttttaag catgaaaggg ctttttgaaa tttttgggtcg 300
nacgggcctt ttcctggcaa tcctatttga gnataaatcc aagccgggtt ttt 353

```

<210> 656

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W33179

<400> 656

```

ttttttttttt attttcataa cttgcttctg ttgattttttt ttttttgtaa aactttccca 60
agacatttttc agacttaaaa ataaagtcag tgttacaggt gctggtcagc cttcttactt 120
gtacctcaaa cactgggata aaggaggcgg tccaggggcaa tgcagtgatg tctgtcaaga 180
cattccccct cccctaaact cagtagcagt tgaggatgac atttcaggct agagagaccc 240
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agcttcatct tctgattgtg ggctttggag gaacgagaga actggctctt gggcactgtg 360
gaggggtaca gctttgccac tcaaataatac cttattgtgg gcattcaggg agccagggtc 420
cagagctgca gggctgc 437

```

<210> 657

<211> 383

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W37778

<220>

<221> unsure

<222> (1)..(383)

<223> n = a or c or g or t

<400> 657

```

agagggttttt tattcggccg ggagcatcag cagactcgca tcttaagagc cgagctcccc 60
gaaaaagaaa ttcctagccc tttgaaggnt tgacaactct aaggggtcta cgtgaaagag 120
tcataataga tcaagtaagt gtgaggaatg tgactgtggg ctacctacat cagctaacag 180
tacaaaaagt ttacagtgc tttctcacac aatgtctgga atttacagat aacaccagta 240
ngttttgggtc aggggttaat attattatca ttctaaccac cagggccagg tgggtggcgcc 300
aaggtcgtct agctatttat ctttcttctg tttctttcca actttttgct ttctcccttt 360
tctcctgtct tataaactag gga 383

```

<210> 658

<211> 383

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W42778

<400> 658

```

gaaaacaaaa atttattgct tctccttcca aagctttgtg aatttacaaa aaaaaggatg 60
aaagttttaca aactgcttag ttccaactaa gcataagagg tgagaacgta cactgcaggg 120
ccaccagcag cagctgtgca ctogatcggt aaaactggct ccccagact tgtagtgtg 180
tcttcagggg gctgcattcc ttacacgcca cctcttgtga catagggtcat tggccaagcc 240
gctggaatgc tacagaggtt tttttgggtt tgagaggctt ttttttgttt tgccttccta 300
ctataaaagc gaaattttca gttcatttct gaaaaataaa ttggtcaata aattcatttt 360
gttctgcttc tacttttacac aaa                                     383

```

<210> 659

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W44760

<400> 659

```

ttttttctgg taacagcatg ttttaatttat tattattgca aaagaacagt ttttctcatg 60
attagtgaata tagaaaactc acaatatact taagagtctg ccccaaacc attacaaagg 120
ggttgagaga agagagaagc agaaaccaa agagaaacag aagtaataat cagttatcac 180
atgatttttta tagtaacaa tagaatatga tgtgcaatag tgcaattttc ctttgctagt 240
ccagcaatgc aagtaagtct taataggaag tccactgtgt tactttttgt atttcgggat 300
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actattgcta gaatcacttt tactgagtc aagatgacga agcttcatat ccagcgctt 420
aacttttttta ccgagtcgat ccttcactt ctcagctata gagccttcca ccaaga      476

```

<210> 660

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W45531

<400> 660

```

tttttttttt tttgaaattt gataaatgtt tattgacttg ctgattcaaa aaaacagtgt 60
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caaaatctga gtaatttatc accttttaac atcttcaaca tatttataat ataaatattt 180
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ggattagtga ctactatctg gttttactgg ttttactcta ctaagcccat gattttgtgg 360
ttttaaccaa ttaagaaat tatccccaag cacaataaaa at                                     402

```

<210> 661

<211> 534

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W45664

<220>
 <221> unsure
 <222> (1)..(534)
 <223> n = a or c or g or t

<400> 661
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 gaattacagc ttatgttaga aggttctctt ctcatcgata ctttcatgtt agaagaaaga 180
 ggacagagggc agagctgatg gaatctcata aaataacagc taatgccgtg tgtcaggcac 240
 tatgcttaac aagtatctgt ttaacatgtg taaatgctct ttagctcttg cttttctata 300
 atataaaaca gtccctgggag tccctgttctt ccccttcctt tctctcgtgt cctttggact 360
 gtcttttngc agcctctggc cttttctcatt atctactaca gcttgctacc tgactcatca 420
 aaggcacatg ggtgttgcaa gagaggatgg gaaccgggtg gtttatacca ttaaactggc 480
 cattataaca gggagctata aggtggaaaa ataggagncc aggaaataaa gccg 534

<210> 662
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W46395

<220>
 <221> unsure
 <222> (1)..(444)
 <223> n = a or c or g or t

<400> 662
 ttttttgcac ttcgcccaca caggacagtg gagccccacc tggtcagttc cacttccggg 60
 ctcccatgca cttgcccacg ggggcctctt tgggacgggg atggtttgag gaaacacttt 120
 taaagaaaaa aggaagacat tgaaagggtt tagtttcttc cctatctgca tgtcctctca 180
 tatagaaagc ccagaattag gggctagaac tccaggagag ggtctccccg actcatctct 240
 tgctgacggt caccaggatg cagaaatagg gagatggtta gtggggggcca aagatgcccc 300
 ctcccaggcc ttctgtggtc cctcctccgc cccctgcaat ctttgggagg agtcagtgcc 360
 tcaactccagc agtgagtgcc tactgtatgc aggtagtcag ccaggcaaag agagactaac 420
 ggtctcatgg gggaacctct tgan 444

<210> 663
 <211> 489
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W49708

<400> 663
 ttttttcacc gcagagatgt ttttattgaa atgcatgtta tgagtaaacac atgaactccc 60
 tctggcccag gtgggacttc ttccctcata ggtgggtcag gccagtgagg acagtcttgg 120
 tgggtggttaag aagggagcca agtgacagaa ggtctccaag gcataggaga tgggtgtccg 180
 tgagtctggg gaaccgagga ttatgaagcc tgctggaagc cttggtatgg tatggttctt 240
 ctgagctgtg gctgcagatt tctcttcatt ggctgcctcc tctgaaaaca gactcctctt 300
 ttctgcaatt aatcttttaa ctctaccat ccactgactt gacctcagtc acatgggtcaa 360
 ccatgagggg gcgggtggatg tcatctgctg cgtcccaccg gtggcttgaa aagctcttgc 420
 accagtagag ccattctctt ctttacaggg tattgacaac tttcctccaa gccactgtt 480

ccttgcaag

489

<210> 664

<211> 678

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W51743

<220>

<221> unsure

<222> (1)..(678)

<223> n = a or c or g or t

<400> 664

```
cacaaaaaaaaa aaatcactaa aaattcccac aaatccttggt tctggcactt tagaaaaact 60
gcaaaaaaaaaa acgtaataaa gaatacatat atatatatct acacacaaat tatatatcta 120
tctatctata cagcgggaacc acaagagaga ctgaggaagg cctggaggca ggggcagagg 180
tgacgacagt gcccttatat ccttaaccca tactcctctg aggcaaacag gcatgggaaa 240
atggaagggt tgaggatgga cgggagaatt ggaacttcag aatagggtcaa aattccaaaa 300
ccatggacat ttttttttgg gagaattgag attgtagaca tttttttttt cttaaatatg 360
atcaaggaaa atagcttcca gaatgtggtg gttctgggca acaaatgaga ttgtggcgac 420
gtggagatta aaatatatgt atttgagctg gggaatttga atattgtgag tttcagatgt 480
tggaattttg ggatttttgc gttttgtctt ttgaaaatga tcaagtcttg tcagttcgtg 540
ccctctttcc ccatgttccc tgggaagacg ggtggtggca gagtgagaag gccactggtc 600
tgtgccgcac acgcaaaatt tagaatctcc agctagctct atcgtgtgag gnccagatta 660
gggaantgcc atattacc                                     678
```

<210> 665

<211> 453

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W52065

<220>

<221> unsure

<222> (1)..(453)

<223> n = a or c or g or t

<400> 665

```
tttttttttt ttttttcaga ggtcaaatac cttttattct ttaaggattc agtgtaacat 60
ccttttcttt aataaaataa tttaacactg gcagaaatta acttattcaa aaagtcatac 120
taatactttg ttatgacttt ttatagaaaa acaaacctta tttttttatt tttttgagat 180
ggagtcttgc tctgtcacct aggtcggagc gcaatggcac gatctcagct cactgtagcc 240
tccacctccc aggttcaagc gattccccctg ccttagcctc ccgagtagct ggaattacag 300
gtgtgcgcta ccatgcctgg gctaattttt gtatttttag tagagatggg gtttcacccat 360
gttggggaagg ctggtttcga actcctgacc tcagggtggat tcacccgcct tggcctccca 420
aagtggctgg gattataggg gtgacagcct gna                                     453
```

<210> 666

<211> 466

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W52638

<220>

<221> unsure

<222> (1) .. (466)

<223> n = a or c or g or t

<400> 666

```

ctcagtttgg gaccaaactg cttggatctt tgtaaaaacc cggtttttga tgtcaaggag 60
gagttttaagg cttttccgac caccttgtgt tccccctttc tgcgccaccat gtatcacgtg 120
gagttgctcc ttaccacacc tcacgtgccc ctgagcccta tttcctgatt tcttctgggc 180
tggaacttccc cgttctccac cagcagctcc agtatcccaa actttctagt cctgctgac 240
ctcccagcaa cgggggtggaa actggagggc agtgtctggg ctgttttcta agaaacttat 300
gaattctatt atctttacaa atatgagaaa attttttcaa tattttttat taatcttttt 360
ataaaatgaa aagaaactcc tatgatcgat taaggaagggt gggtatggct ggggtggttca 420
gggggtttttt tgggtttcnt tttttttttt cnttgtcctt ttaacg 466

```

<210> 667

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W52858

<400> 667

```

cacggccaaa atccataaag attataaaag caaactaagt tgtgaagcta tagtacatgt 60
aggcatttag ttaagtatag caattcaaac tgacctgcat ccatccaaaa caaatctctc 120
cttcaacctt atttttactt gaaatttgct agaagaaata gcaaaccga aatttgtttt 180
atgcatgagt taataccact ggctcagcaa atacaagtta gtttgcttta agcaggtaac 240
tttttttgtg atggaacgaa atgcactaca aagttaagac agatttttgc taagtgcagg 300
aggcccttta ttattgctgc agaaaacaaa agcctggctg agttgatgtt ttacattctc 360
ccttactgaa atctacatga catgatgctt cttgctgggt ttttgtacat ggtaaacatt 420
ggtcaagctg tgaaagaaaa tgggctggag gtgtgctttg gtgtggaaag ggtgagcaat 480
aaaggtatcc ggttaagttc cccaaaaaaa a 511

```

<210> 668

<211> 426

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W56792

<400> 668

```

catcattttt tattgtaaga aaatacacag tttgaaagtg tgaataatgc aatatttatg 60
accaagaaat gggacttagg aaggggaagg aagataaaga aaaagatcaa gatgatctga 120
ttgagagaca gtgttgaaact ccaaatactg aactggaaaa ggaggagggt ggggaggaac 180
aggaggagga agtaaaaaaa tttgatcaga gaaacagtta aaatacaata tgaaaaataag 240
taatacctct ctttaaattc cttctatata caaaatacac gatttgccaa agcccaattt 300
gtgctactgg gattctgtga gctccttaag tgtattcaca tcctctgcaa cagcagaaaa 360
tgattatgat acaatcagaa tatgctgaag acaagttaaa ctcttgccag cagggttcctt 420
aaaaat 426

```

<210> 669
 <211> 426
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W57931

<220>
 <221> unsure
 <222> (1)..(426)
 <223> n = a or c or g or t

<400> 669
 tttttttttt tttttgggag gcaggagttg ctttttattg acttggaagt gggctcttca 60
 gtgaagcccc tttggttnta agagcatttt cctgcttcct ttgttcttcc tgcaacttct 120
 gctgcctgag ctgccatgct tgtaatccag cgtccatttc ctgtgacagc agtacaaactc 180
 gtcttgcaaa cgtctccctt tcagcttttc ttcgaagctg gcctttcatt gggggagcag 240
 ggcggccatc cgattatgac cagtctggga gctcggtaag gggcccgtaa gccgganggg 300
 ttggcagcca agtccctgct gtantcgcca ctggccgccc gcccaagcgg ttacnttgca 360
 gtgcaccctt ccggacacct gtgaagagaa cagtccctaa agcagccatg tgagcagcct 420
 cgtgcc 426

<210> 670
 <211> 98
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W60186

<400> 670
 aacttacaaa caaaaatacc gtaataataa acccaaacaa agaccctcag cttgctgcca 60
 cgttctctat gcggtttggc ggggcgggta ttacaag 98

<210> 671
 <211> 597
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W63793

<220>
 <221> unsure
 <222> (1)..(597)
 <223> n = a or c or g or t

<400> 671
 ggaactgaga aaacagcaaa gttgactaaa ttttatattt cttgtcctct aaatatatttg 60
 ataatttctg gattgatgca gtgatgtttt tgttccttcc gtatttataa atgaaacacc 120
 ttttttttagt gtttctaaac ctaaaatcta cttggtttga aatcaagtgg ttggaacact 180
 gtttgacttt tatttgaagc atgttggtga ttgaaaattt cattgaggaa gttttcaatc 240
 agtgtgatca gtttgattct gtaatgagca cagcacctaa tattttgagg agctctgttt 300
 tgaggaccaaa tgcttaagggt ggactttgtt cgtaaacaat atcccaatag atttgttgac 360
 ttgaggtctg gtttggtttt gtttttgttt tgttttgttt tgttttgttt ccaatagaat 420

```

taagaattct aatgttgaaa aactgcacaa atttttatgg gacaaagcct agaaaagaga 480
aatgtagttt gaatcataac caaaaccacg gatgatagaa gagggaaagt ttggggccat 540
aatttctcct tcactgggtgt tgacctaaac cgttggaaag gaattccggn cccaatt 597

```

<210> 672

<211> 447

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W67225

<400> 672

```

ttttgtgttc caataaaatt ttattaacaa aatatgacag tggggggggcc acagtttgcc 60
aaactttgcc ttggaggaca tgcagaggca ccctcagaat tcagtgaanaa cctgctccca 120
tattgctaag actcatgaag tataatctct catcttcttt ctctttcccc tgcccaagcc 180
ctaagttagg gttcccatcc atataacaaa gacttctggt caggtggcat ttgctatctc 240
tgagattccc tgcccatgaa agccacaaa agatttcttc ttttacacac cctgaagcat 300
attatggccc cagcaaggct aactaaatca aactgtggtt taaaaacaaa acaaaccaac 360
cactgtgaaa tattttatttt tgtttttag tagttaagcat gattaaacca gtgcagaaaa 420
atactaagta cattgggtaa aagatga 447

```

<210> 673

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W67577

<220>

<221> unsure

<222> (1)..(411)

<223> n = a or c or g or t

<400> 673

```

ctaattacta ctttttattc taatgtgaac catgggccct ggaaagctga taacaagctt 60
ggctgagcag agggaaactag gggtcaggca gaaaggatta tgggntggaa aacattggct 120
cttccttggg nagtggatgc tngggaaaagg ggaagagagt ggctcancct ggcaggtaaa 180
taggctagaa aagccaaggc caaanctggn gaggggagag gacagtcagc atgtccagcc 240
tggggtctgg gtgtaagggt tatcccttct ccctgggtgcc ttcccatctc gtccatgagc 300
ctaaggctctt gggagccttg tgttgggagg ctgctgtgat gtcagggaac ggggatctgt 360
ctagcttttg gccacttctt ggggacctca caccctgtt tganaaattg g 411

```

<210> 674

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W69302

<400> 674

```

gctttcgggt gttccttggt gactgggaat tgcttgtgtg catgtgttgg gtgcatgctt 60
ccgggtctca gctgccccag gcccgcacag gcaaccctt cccatccaaa gccattgggt 120
gagcttctct ggaatcattt gccaaaagcc caaggcagaa tccaagggtc caagaccatt 180

```

```
tccatggagc tcatgttttt cttttctgta ggaacttttt ttttaaccagc acccaccata 240
attccgaagc cacgttttcat ctttctgga tcactacagt gaagtattac acgttgtaca 300
cgttcccagt ctggccttgg cttgctcgga taaaactttg tatgtatttt gtatggcata 360
gattctatat tgtaatgatg tcctatgcaa aaagagaaat taacgaaatt gtaaatttta 420
ttgttttaac gtgtatgcat gtttagtgac gtttacattt tgaaataaaa ttt 473
```

<210> 675

<211> 128

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W70131

<400> 675

```
gttttttgac ttcattttatt atataaggaa cctaactcaa attggcttaa gcaattaata 60
aatgtttatt gttacattgt tgtaatgtgg ctggaaatcc agaagtcata caaatctgtc 120
aggattgg 128
```

<210> 676

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W70167

<220>

<221> unsure

<222> (1)..(428)

<223> n = a or c or g or t

<400> 676

```
cagttctgtc ctttcgagaa aaacgtggaa tcgacgagga ctttctgca gacggtgagc 60
agtgagaagg tccgctccac taatctcaac tgctcagtga ttgcggacgt gaggcattgac 120
ggctccgagc cctgcgtcgg acgtgctgtt cggagacggg catcgtctga ttatgcgcgg 180
cgtcatctca ccgctctgga aatgctcacc gccttcgcct cccacatccg ggccaggggac 240
gcggcgggca gcgggggacaa gccgggcgct gatactggtc gctgacagcg ccaaagagac 300
caacaagatg attttagcgt ggactaggac acttaaccta agaagagttt cacttaatca 360
ttcaaatac tatctgaagg gtcacggagc gcaaaataaa gtttaaaacc ctgctaccaa 420
aaaaaaaa 428
```

<210> 677

<211> 359

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W73038

<400> 677

```
tttttttttt ttttttaaaa atcagatggg gactttattg tgatggtggc aggtccacca 60
gcagatgcaa atgtggggtg ctgagagtgg caacacaggc caccctaaac caacttcact 120
ccctcccctg ccctcagcca gtacagaagc caaatgtagc cccagcccta gactccagcc 180
caggcagagt ccaagggagg ggtgtcaggg tcagaagtca caggagccc agtgactatc 240
aaggtggctg agagcaaggc tagggtaggg atggggcaga gaaagggcag ggggtgcagc 300
```

ccaggtggcc caaagcaaca cagaggagca agggctggca ttcaagtcag caggtccct 359

<210> 678

<211> 620

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W73790

<220>

<221> unsure

<222> (1)..(620)

<223> n = a or c or g or t

<400> 678

```
ctggttgaca aagaggggtat ttattgaggg tttactgggt acanggagaa gggctggatg 60
gcttgggatg cagagagaga cccttccctt gggatcctgc agctccaggc ccctttgggt 120
ggggtcgggg ctgggaacct atgaacattc tgcaggggcc accgtcttct ccacgggtgct 180
cccttcgtgc atgacctggc agctgtagct tctgcgggac ctccactgct cgggcgtcag 240
gctcaggtag ctgctggccg cgtacttggt gttgctctgt ttggagggcg tggtcactctc 300
cacgccctgg gtgatggggg taccatctgc cttccaggtc accgtcaaga ttcccggata 360
aaagtcattc atgagacaca ccagtgtagc cttgttggct tggagctcct cagaggacgg 420
cgggaacaga gtgaccgagg ggggtggcctt ggntgactta aaacgggtgag ctgggtcccg 480
ctgccaaaca catgcgtcac tgagttatgc ttggattgaa accccggggc cancaacttg 540
ggcagtcag gagccgcctt gaacaggaac ctgcccaccg gttcctaagc ttgaccgctg 600
nttctccagg gtccaggncc                                     620
```

<210> 679

<211> 697

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W73859

<220>

<221> unsure

<222> (1)..(697)

<223> n = a or c or g or t

<400> 679

```
tggacacgct caggctggcg tccagctaca tcgcccactt gaggcagatc ctggctaacg 60
acaaatacga gaacgggtac attcaccggg tcaacctgac gtggcccttt atggtggccg 120
ggaaacccga gactgacctg aaagaagtgg tgaccgcgag ccgcttatgt ggaaccaccg 180
cgtcctgacc ttggaggtgc gactctggga aaggcgcgct cccgggggga ngcgcnct 240
gggaaggcga cccctgccct cagtgtcttc tgtctctgct tccccctcgc aatgctcctc 300
tctctgtccc accccgcgag aacactttac aacgacgagg agattcgttt ccaaaccaga 360
ggagatcaat tgtacttaca aagattccca tctattttaac tttattaact tctaccgtga 420
atgactctgc aagccttgct ggtccaagtg caatatgtaa ttataaatat ataaatagat 480
aagagcctat caatgtatct tttgtacaat atgttgtaaa atgtagatca taggatagct 540
gactttgaca gtcacattta taaagtaatt cacttaaaga tatatatatt tccaacaagt 600
ttgcactttt gaaataaacc ttctttatat gctaaaaaaa aaaaaaagat nggcggantt 660
tccttggggg gtaattantt gatgcgcggt aangcgg                                     697
```

<210> 680

<211> 676
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W74533

<220>
 <221> unsure
 <222> (1)..(676)
 <223> n = a or c or g or t

<400> 680
 ttttttcagtt ggacacaaat gtattttatatt taccctagca atagaacaaa atataatttc 60
 ttttagccatt tttcatgaga atagtttcatt gtacagttga ggaaacatat gaaataaggc 120
 ctgtgggtga ttgctagtgg ttaagcatgt tttcaatctt tgccttaatg taaaagattt 180
 gcagtgaact gcaaaactgat gcagaatatc tctcctgctt ttccaagtct tgtcaggaat 240
 agtaaggtag agtaaatttg tcccacagga ttttaaagcc tacgtcttgt atataatata 300
 atgcaggcct acaaaaatgg tgcagccata ttacaaaatt tagttcacag actgctgcag 360
 taaaatggct ggaaagtatt gttttgcttg tttcacaatt tctctaaaca gcagcagaat 420
 cttaaaatata ctggctggca tctcttttct ttgtaacaaa taattcactt tagtatactc 480
 tgtgtatata caaagttttt gtatgtttta taaaaattca cagaactgca aggttcagtc 540
 actttttttac accagagaac cacagggtcaa gagcactctt caagcagagt tgaggggactg 600
 cgnagccaat ggtgccttat tattaaacct gcattgggctt ggatcctagc tgagataagn 660
 tgtaccacgc atgcct 676

<210> 681
 <211> 496
 <212> DNA
 <213> Homo sapiens

<220>
 <223> Genbank Accession No. W76181

<220>
 <221> unsure
 <222> (1)..(487)
 <223> n = a or c or g or t

<400> 681
 cgaggagtcg gggcaaagct gggcctgcgt gagattcgca tccacttatg tcagcgctcg 60
 cccggcagcc aggggtcagg gacttcattg agaaacgcta cgtggagctg aagaaggcga 120
 atcccgacct acccatccta atccgcgaat nctccgatgt gcagcccaag ctctgggccc 180
 gctacgcatt tggccaagag acgaatgtcc ctttgaacaa cttcagtgtc gatcaggtaa 240
 ccagagccct ggagaacgtt ctaagtggta aagcctgaag cctccactga ggattaagag 300
 caacagcccc agagcctggg ctctgctgga cttagtataa tgtgaaaaaa atgtgttctc 360
 ctattcctca taaagcttgt gctgtaaaat actttctcag ggtgttcttg tcctcatcta 420
 ccctctaccc cttactgtgc aaccactgag gcaaaagtagc ttaatatata aataaaactt 480
 tattctgtgtc tcaaaa 496

<210> 682
 <211> 315
 <212> DNA
 <213> Homo sapiens

<220>

<223> Genbank Accession No. W78127

<400> 682

```

gaaaagacgt gcttgtcatt cttaataaac aactagagta agaatacata agagaaacag 60
agtggatctt ttatatgata cacaagtgtg tggtacaaga attccatcag gcacaggagc 120
ctcagggtttt aaggcctcaa tgtagggcca acaaaaaaaaa aaaaggcatg gtaaagtttt 180
tactttttaca tctaaaatgt cacttgtcat aaaggagggt gtaatagaaa ttgtctttta 240
taaatacataa ttgaagttcc cctcattttt cttccattaa gatgctaagt ttatgtctga 300
tcatgaagaa agaaa                                     315

```

<210> 683

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W86513

<220>

<221> unsure

<222> (1)..(418)

<223> n = a or c or g or t

<400> 683

```

ccagtgaaac tcatttttatt ttcagctgaa aaatatacac agataagcat taaaattgaa 60
ttattatagg ttttctgaaa ataaaaat tttt acaatactta tgtttaacaa agattaaaaa 120
attcaaacaa atcaggaagg cacaggctct gtaaaatgta ataaagaatt tagtccatac 180
cttgatgcat agtgggtggca ttaaattggc caatttttct gtatcatgcc tgcctgcctt 240
agatctcaaa cagacctact ctcttttctc tctttctcat cttacaaac ttttgataat 300
caagcatcat agtatgacaa agagagtaac aagagctgtg caggccagca catccagaga 360
gcagtactga aaccagggtg gcttgtgggc aggtngcagc aggtacttgg gctccatt 418

```

<210> 684

<211> 265

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W88568

<400> 684

```

gtttttttaac attttaattt caacgtgccg gcatttgtcc aaatgagatg atacaggcta 60
gaatgcacgg cggaattcca gactggactc actccataag ccaactcatc actgcccgtg 120
aacatgaatt ctggctctca gagaagctga cattgtttcc ctgaacattc ccgtgggtctc 180
cctctgaaag ccgatgacca tccaacctg actcacctga aatatcctac gagcatcgcc 240
ctccgagact gacgattatt aacca                                     265

```

<210> 685

<211> 395

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. W92207

<220>

<221> unsure
 <222> (1)..(395)
 <223> n = a or c or g or t

<400> 685
 gtgtttccaat aaaacttttat ttacacacat tgaaacctga atttcataca atttttcacgt 60
 taccaaattt taattttttt tcaactattt aaaaatgtta aaaccattct tagctcacag 120
 gctatgcgaa anagancaac cagccagatt cggcccacgg tttaaggcca gtttaagcct 180
 caccaccttc ctagcccccac tcacctattt tgtcctctca tcttcctgtc cttcagcacc 240
 cccatgacct tcctgtgacc ttcaatggcc cctccagctg ccgtccagcc ctgtctgtct 300
 gcccttnggg gaccctctcc tcctgggctg caggactgtt ttttcctgga gcaggtctct 360
 aaatagctcc attcgccttg gcagggggaa tccag 395

<210> 686
 <211> 241
 <212> DNA
 <213> Homo sapiens

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 <223> Genbank Accession No. W92449

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<223> Genbank Accession No. X07109

<400> 699

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<210> 700

<211> 1629

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X07438

<400> 700

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<211> 2511

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. X12795

<400> 701

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<211> 3464

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X16354

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<211> 1044

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X17567

<400> 703

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<210> 704

<211> 1797

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X51345

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X57809

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X72841

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<210> 719

<211> 3151

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. X76180

<400> 719

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X85373

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<211> 2489

<212> DNA

<213> Homo sapiens

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<223> Genbank Accession No. X85785

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<211> 270

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z38744

<220>

<221> unsure

<222> (1)..(270)

<223> n = a or c or g or t

<400> 734

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caacacacag tcatgctgga aggcattctg tcttactctg ttgggttcat gtaaagtgtt 180
gggggtgactc attccgcctc ttctnttctc aagttccagg cttcttgggt agaccaaacc 240
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<210> 735

<211> 287

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z38785

<400> 735

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ttgaggctgc tgggcagggg cccaggcagt aagtgagggc acctgagagg ctctgaggac 240
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<210> 736

<211> 323

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z39904

<220>

<221> unsure

<222> (1)..(323)

<223> n = a or c or g or t

<400> 736

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aaagtatttg tgatggcaaa tggacagaac aatcatttag gtagcatcta ggaatattgc 180
tacaattact ttacataaat ngaaatccac gtctttatta gtaatgtncac acacatctta 240
gagtaaaaaa ttacataaga taggcttata aatatacata aatctcaaaa ttaatcacia 300
acattaggtg cacaattggt ata 323
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<210> 737

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z39983

<400> 737

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gggaagcaga gtgggctggt gatgtctgga aagctccctc accagagtgc ccagtgggtc 180
acacagcatc atgggggatg agctgggggt ggagtcgggt gtatctgaca ccagaccctc 240
cattcaagct cccttgatga caacgcccac aacagggtct ggctgatgct ccgttctgcc 300
acgactcctg ctgggtgatc gtggga 326
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<211> 254

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z40186

<220>

<221> unsure

<222> (1) .. (254)

<223> n = a or c or g or t

<400> 738

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tgatttacat tgatttacac atgattggng cctaatttat taatcagcac gcagcatgta 180
aatgtgctca aaagaaatca aggtttaaaa taagttttcc ataattattca taaacatttt 240
cgctgggtgta aatg 254
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<211> 346

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z40556

<220>

<221> unsure

<222> (1)..(346)

<223> n = a or c or g or t

<400> 739

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cctggccttg ttgtggggct caggaactca gagtcccagt gttgagtctg ggagcactag 300
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<210> 740

<211> 292

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z40715

<400> 740

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gggcatgcca ttgcatggc aaccagatg cttagatgca ggtccctcct ggctgcttag 180
agctgggggg actaggcgcc ctccccgaaa gccccattc tgagttgttg gtgcctgccc 240
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<210> 741

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z40898

<400> 741

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tgctacacgg gttatgcttg gactctgact ccagcagca ggtagattca ggaattcatg 180
gcagtgcacat tcaccatcat gggaaacacc ttcccttttc ttcaggattc tctgtagtgg 240
aagagagcac ccagtgttgg gctgaaaaca 270
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<210> 742

<211> 333

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z41642

<220>

<221> unsure

<222> (1)..(333)

<223> n = a or c or g or t

<400> 742

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gtgtcctcag gctgcatcag ctgtcttcag tctccagaac agaaagagcc tgaccagg 240
gcatcttggt ggccaccaga accaggtttc tgggagagag ttcaggactg aagatgggca 300
ggagctcagc atggaaacct gggagaaagg gcc 333

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<210> 743

<211> 1569

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z48501

<400> 743

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<210> 744

<211> 4553

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z69881

<400> 744

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<210> 745

<211> 5086

<212> DNA

<213> Homo sapiens

<220>

<223> Genbank Accession No. Z74616

<220>

<221> unsure

<222> (1)..(5086)

<223> n = a or c or g or t

<400> 745

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primer, PSMA

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International Bureau



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(74) Agent: **TUSCAN, Michael S.**; Morgan, Lewis & Bockius LLP, 1111 Pennsylvania Avenue, NW, Washington, DC 20004 (US).

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(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **MUNGER, William, E.** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20878 (US). **KULKARNI, Prakash** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20878 (US). **GETZENBERG, Robert, H.** [US/US]; 708 Quince Orchard Road, Gaithersburg, MD 20878 (US). **WAGA, Iwao** [JP/JP]; Pharmaceutical Frontier Research Laboratories of Japan Tobacco, Inc., 1-13-2, Fukuura, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0004 (JP). **YAMAMOTO, Jun** [JP/JP]; Pharmaceutical Frontier Research Laboratories of Japan Tobacco, Inc., 1-13-2,

Published:

— with international search report

(88) Date of publication of the international search report:
7 November 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IDENTIFYING DRUGS FOR AND DIAGNOSIS OF BENIGN PROSTATIC HYPERPLASIA USING GENE EXPRESSION PROFILES

(57) Abstract: The present invention is based on the elucidation of the global changes in gene expression in prostate tissue isolated from patients exhibiting different clinical states of prostate hyperplasia as compared to normal prostate tissue as well as the identification of individual genes that are differentially expressed in diseased prostate tissue.



WO 02/012440 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/24708

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68

US CL : 435/6

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6; 514/168

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,763,429 A (BISHOP et al) 9 June 1998(09.06.1978), see entire document.	1-3
X	US 5,882,864 A (AN et al) 16 March 1999(16.03.1999), see entire document.	1-3
X	Bubendorf et al. Survey of Gene Amplifications during Prostate Cancer Progression by High-Throughput Fluorescence in Situ Hybridization on Tissue Microarrays. Can. Res. Issued 15 February 1999, Volume 59, pages 803-806, see entire document.	1-3
X	Bubendorf et al. Hormone Therapy Failure in Human Prostate Cancer: Analysis by Complementary DNA and Tissue Microarrays. J. Nat. Can. Inst. Issued 20 October 1999, Volume 91, Number 20, pages 1758-1764, see entire document.	1-3

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

27 March 2002 (27.03.2002)

Date of mailing of the international search report

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks

Box PCT

Washington, D.C. 20231

Facsimile No. (703)305-3230

Authorized officer

Felicia D. Roberts for
Channing S. Mahatan

Telephone No. (703) 308-0196

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/24708

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claim Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-3

Remark on Protest

☐
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/24708

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

In a telephone conversation with Michael S. Tuscan, March 15, 2002, to determine whether applicants' elected additional groups it was pointed out that the original lack of unity contained an error whereby Group 1 (claim(s) 1-3), drawn to gene profiling of benign prostatic hyperplasia, was inadvertently omitted. It is hereby agreed upon that the lack of unity requirement be modified by the addition of Group 1. Therefore, the original Group 1-755 is now Group 2-756, the original Group 756-1510 is now Group 757-1511, etc. Applicants' elected newly modified Group 1 (claim(s) 1-3), and no additional groups.

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group 1 (claim(s) 1-3), drawn to gene profiling of benign prostatic hyperplasia (newly modified).

Groups 2-756 (claim(s) 1-7), drawn to a method of identifying an agent that modulates the onset or progression of benign prostatic hyperplasia in cells based on expression of SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example,

If Group 2 is elected, this correlates with SEQ ID NO: 1.

Groups 757-1511 (claim(s) 8-12), drawn to a method of diagnosing the onset or progression of benign prostatic hyperplasia in a subject based on expression of SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example,

If Group 757 is elected, this correlates with SEQ ID NO: 1.

Groups 1512-2266 (claim(s) 13-17), drawn to a method of differentiating prostatic hyperplasia from prostate cancer based on expression of SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example, If Group 1512 is elected, this correlates with SEQ ID NO: 1.

Groups 2267-3021 (claim(s) 18-31), drawn to an oligonucleotide probe of SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example,

If Group 2267 is elected, this correlates with SEQ ID NO: 1.

Groups 3022-3776 (claim(s) 32-43), drawn to a computer-system comprising a database of information pertaining to SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example,

If Group 3022 is elected, this correlates with SEQ ID NO: 1.

Groups 3777-4531 (claim(s) 44-48), drawn to a method of monitoring treatment in a patient based on gene expression of SEQ ID NO X, wherein X is anyone of SEQ. ID. Nos: 1-755. For example,

If Group 3777 is elected, this correlates with SEQ ID NO: 1.

Group 4532 (claim(s) 49 and 50), drawn to a method of analysing gene expression results by implementing an algorithm.

The inventions listed as Groups 1-4532 do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The claimed methods produce different products and/or different results which are not coextensive and which do

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/24708

not share the same technical feature; identification of a compound, diagnosing BPH, differentiating from cancer, an oligonucleotide probe, computer-system, monitoring treatment, and analysis with an algorithm. Furthermore, the claims are directed to different genes corresponding to SEQ ID Nos: 1-755. Each of these genes are separate entities which encodes different proteins with different activities, binding reactions, antibody recognition, etc. and thus each has its own special technical feature. Thus, in summary, each of Groups 1-4532 are directed to different special technical features and thus support this lack of unity.

Continuation of B. FIELDS SEARCHED Item 3:

US PAT FULL, COMPUSCIENCE, BIOSIS, BIOCOMMERCE, CAPLUS

search terms: benign prostatic hyperplasia, gene expression, cell, drug, microarray, compare